1510-213-20-2

TM 11-1510-213-20-2

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE MANUAL

SIGNAL ELECTRONIC EQUIPMENT CONFIGURATION ARMY MODEL RV-1D AIRCRAFT (NSN 1510-00-368-8440)

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Organizational Maintenance Manual

SIGNAL ELECTRONIC EQUIPMENT CONFIGURATION ARMY MODEL RV-1D AIRCRAFT

(NSN 1510-00-368-8440)

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Figure FO-2 ①	Figure FO-2 ①
Figure FO-2 ②	Figure FO-2 ②
None	FO-2.1 ①
None	FO-2.1 ②
Figure FO-23 ①	Figure FO-23 ①
Figure FO-23 ②	Figure FO-23 ②
None	Figure FO-23.1 ①
None	Figure FO-23.1 ②

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Organizational Maintenance Manual

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MODEL RV-1D AIRCRAFT

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FO-10 (sheet 1 of 2) and FO-10 (sheet 2 of 2).	FO-10 (sheet 1 of 2) and FO-10 (sheet 2 of 2)
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FO-19 (sheet 2 of 5), FO-19 (sheet 4 of 5), and FO-19 (sheet 5 of 5)	FO-19 (sheet 2 of 5), FO-19 (sheet 4 of 5), and FO-19 (sheet 5 of 5)
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FO-33 (sheet 2 of 4) through FO-33 (sheet 4-4)	FO-33 (sheet 2 of 4) through FO-33 (sheet 4-4)
FO-34 (sheet 1 of 2) and FO-34 (sheet 2 of 2)	FO-34 (sheet 1 of 2) and FO-34 (sheet 2 of 2)
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Organizational Maintenance Manual

SIGNAL ELECTRONIC EQUIPMENT CONFIGURATION, ARMY

MODEL RV–1D AIRCRAFT

(NSN 1510–00–368–8440)

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- Sig Sec USA Dep (1)
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  (1 cy each unit)
  - 29-134
  - 29-136

NG: None
USAR: None
For explanation of abbreviations used, see AR 310-50.

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TM 11-5840-340-12	23 Jan 74	Radar Set AN/[illegible]-76

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PAGE NO.	PARAGRAPH	FIGURE NO.	TABLE NO.	IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:
2-25	2-28			Recommend that the installation antenna alignment procedure be changed throughout to specify a 2° IFF antenna lag rather than 1°. REASON: Experience has shown that with only a 1° lag, the antenna servo system is too sensitive to wind gusting in excess of [illegible] knots, and has a tendency to rapidly accelerate and decelerate as it hunts, causing strain to the drive train. Hunting is minimized by adjusting the lag to 2° without degradation of operation.
3-10	3-3		3-1	Item 5, Function column. Change "2 db" to "3db." REASON: The adjustment procedure for the TRANS POWER FAULT indicator calls for a 3 db (500 watts) adjustment to light the TRANS POWER FAULT indicator.
5-6	5-8			Add new step f.1 to read, "Replace cover plate removed in step e.1, above." REASON: To replace the cover plate.
		F03		Zone C 3. On J1-2, change "+24 VDC to "+5 VDC." REASON: This is the output line of the 5 VDC power supply. + 24 VDC is the input voltage.

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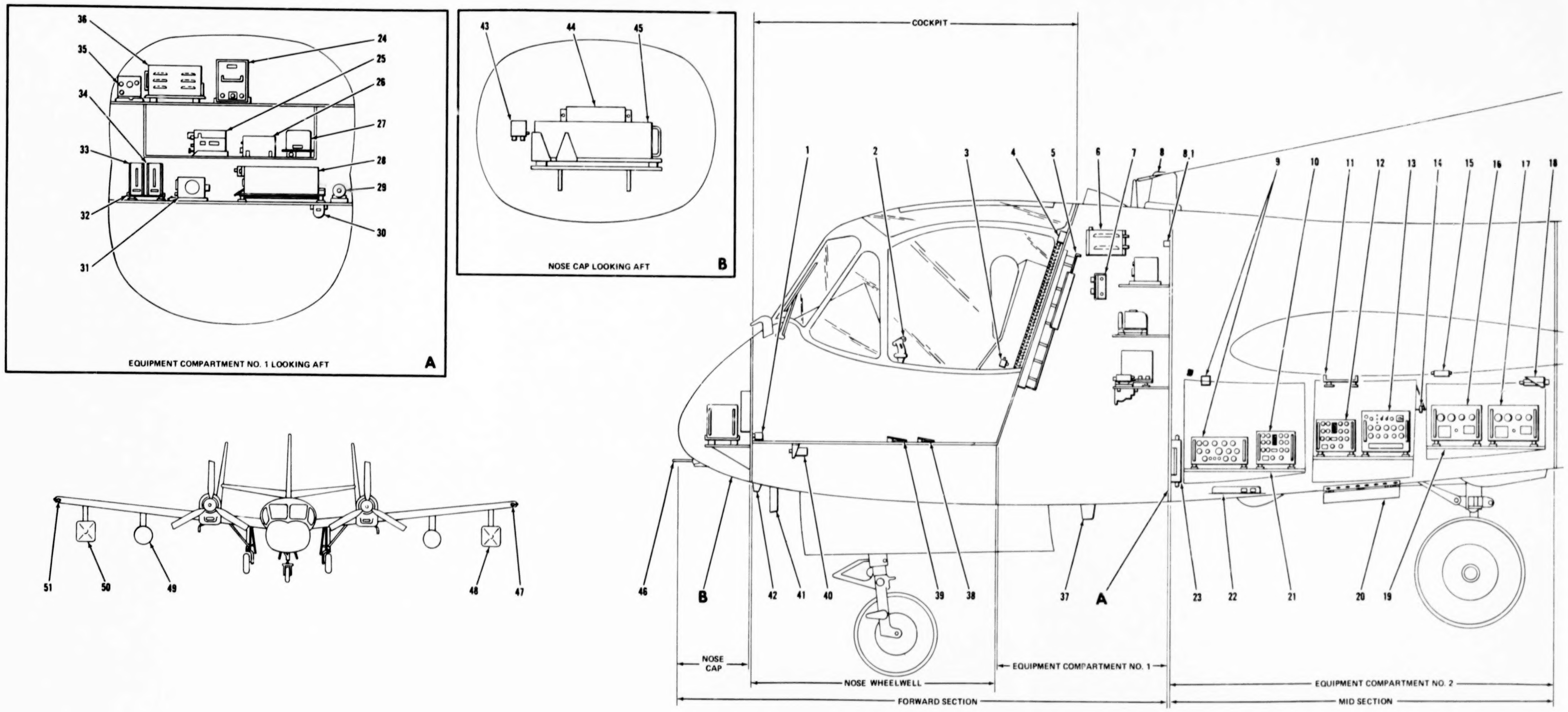

1 Forward intercommunications jack (1W4J1)
2 Pilot's and observer's stick grip
3 Pilot's or observer's IFF switch cable assembly (16A5 or 16A6)
4 Pilot's or observer's oxygen and communications disconnect
5 Forward junction panel assembly (29A18)
6 Intercommunications junction panel assembly (29A1)
7 KY-28 terminal strip panel assembly (29A4)
8 VHF/FM Blade Antenna AS-2285/ARC (4A6)
9 Battery Container Assembly, Monitor Controller C-9537/ALQ-133 and Mounting MS91405C20 (32A8)
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11 IR jammer junction panel assembly (30A3)
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17 Frequency Synthesizer O-1672/ALQ-133 (32A4) and Mount MS91405B1C
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20 Countermeasures receiving facility test panel
21 Forward pallet assembly
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30 Aircraft Accelerometer MX-2916A/ASW-12(V) (11A4)
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39 RADIO foot switch cable assembly (1A3)
40 True Airspeed Transmitter T-992/A (12A4)
41 Antenna AT-450/ARC (31A7)
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43 Transmit/Receive Switch SA-2056/USQ-61 (31A3) (Removed after MWO 55-1510-213-50-4)
44 Digital Modem MD-939/USQ-61 or MD-1102/USQ-61A (31A1)
45 Key Generator TSEC/KG-( ) (31A6) and Mounting Base MT-4904/USQ-61
46 Glide slope antenna (10A3)
47 Radar warning receiver antenna (33E1) and Amplifier Detector AM-6639/ALR-46(V) (33A7)
48 Intercept Receive Group OR-140/ALQ-133 (32A11)
49 Countermeasures Transmitter T-1346/ALQ-147 (30A1)
50 Intercept Receiver Group OR-140/ALQ-133 (32A12)
51 Radar warning receiver antenna (33E4) and Amplifier Detector AM-6639/ALR-46(V) (33A4)

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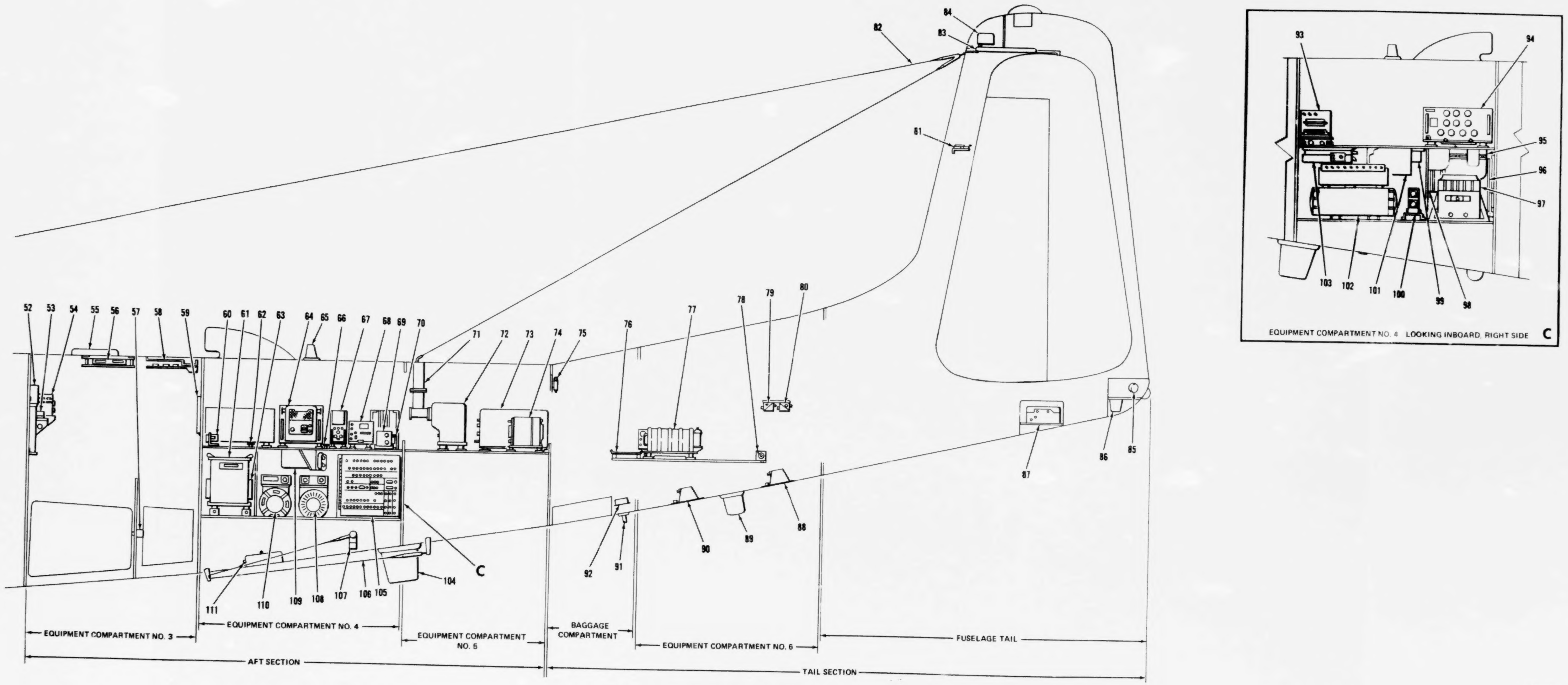
Figure FO-1. Aircraft equipment location (sheet 1 of 2)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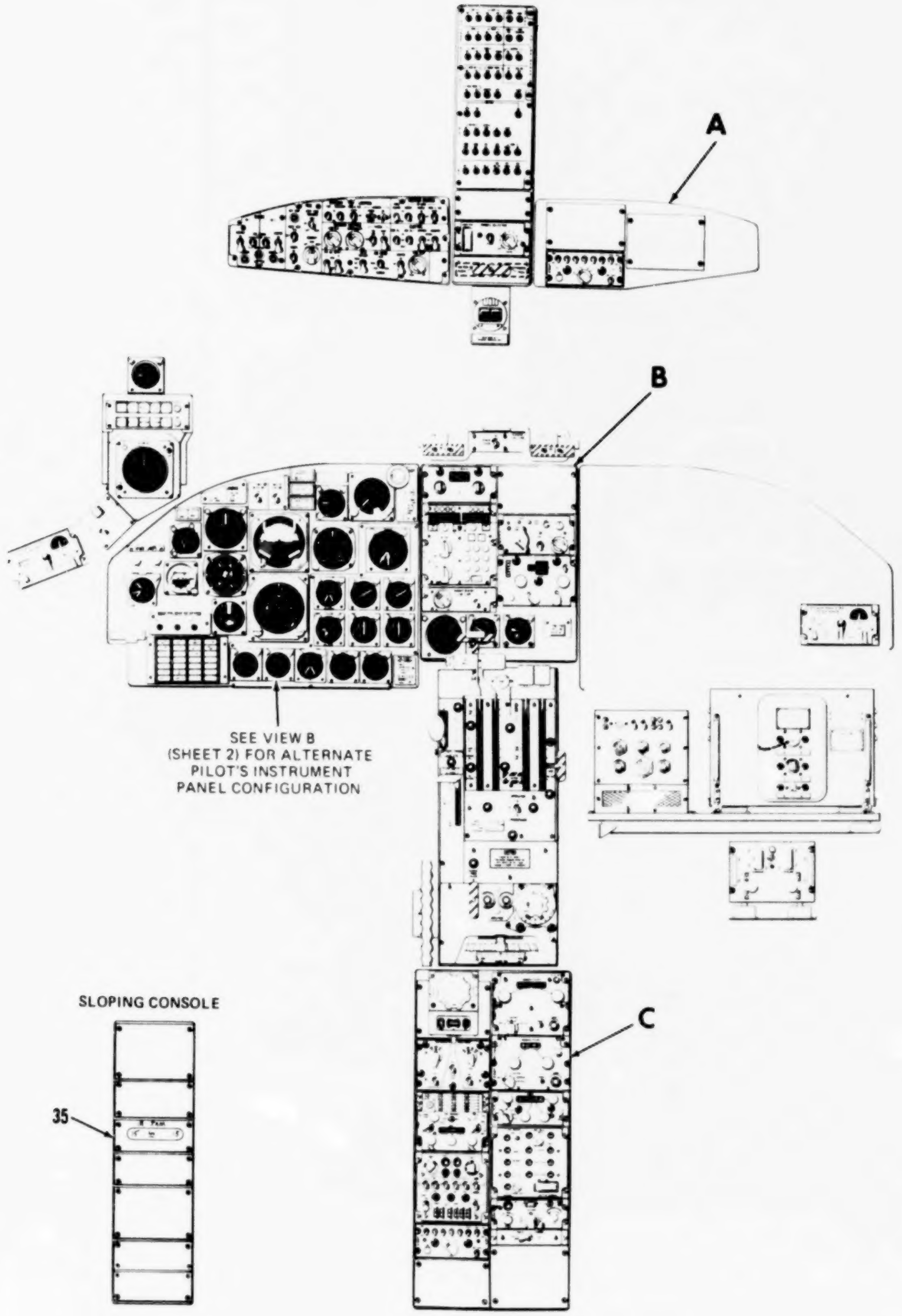
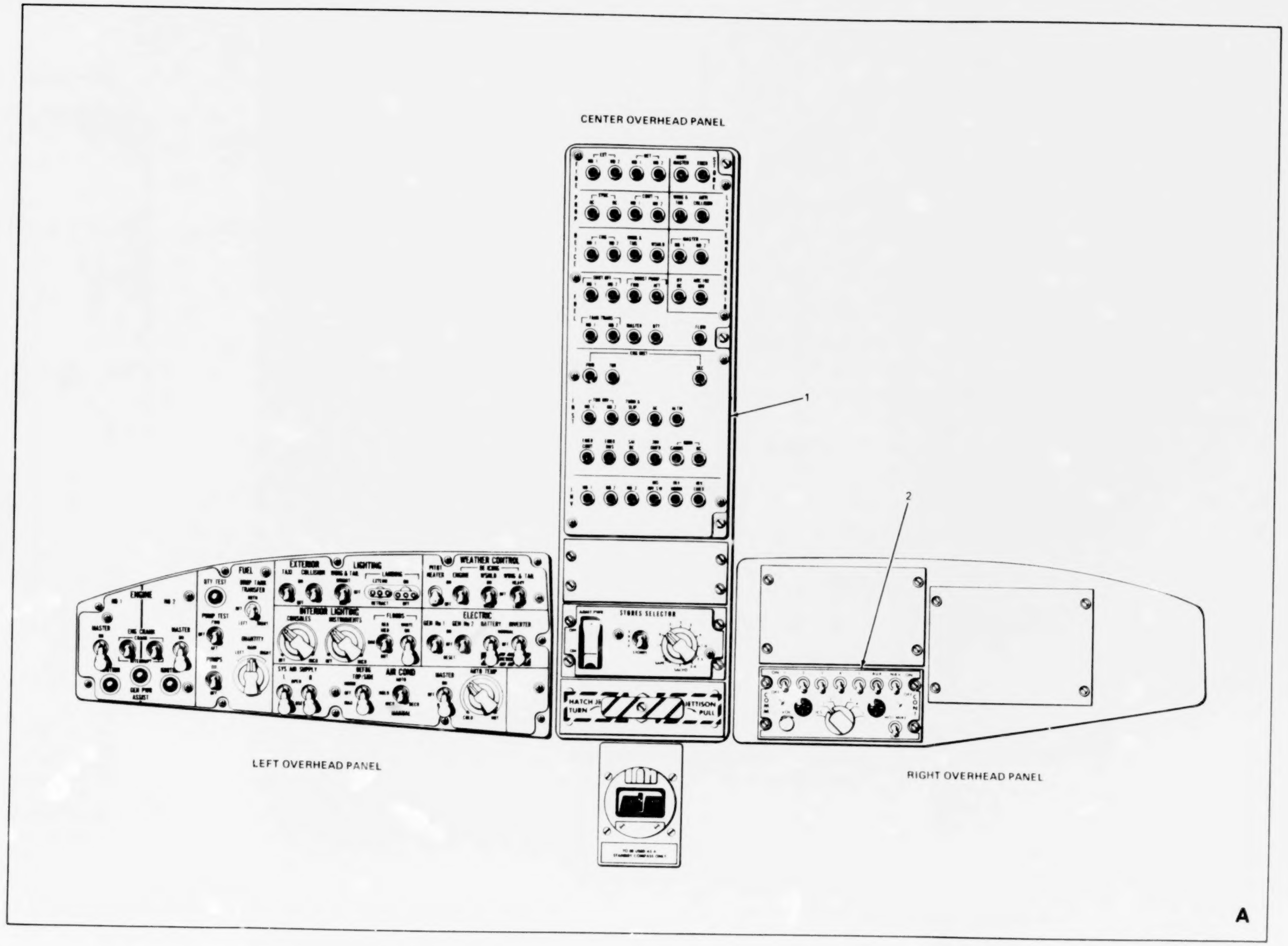
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
C
EQUIPMENT COMPARTMENT NO. 4 LOOKING INBOARD, RIGHT SIDE
C
EQUIPMENT COMPARTMENT NO. 3
EQUIPMENT COMPARTMENT NO. 4
EQUIPMENT COMPARTMENT NO. 5
BAGGAGE COMPARTMENT
EQUIPMENT COMPARTMENT NO. 6
FUSELAGE TAIL
AFT SECTION
TAIL SECTION
EL2ZT109

52. Autopilot junction panel assembly (29A6)
53. Automatic Pilot Altitude Control C−3106/ASW−12(V) (11A10)
54. Attitude Reference control C−3108/ASW−12(V) (11A9)
55. Loop Antenna AS−2108/ARN−89 (9A4)
56. Navigation junction panel assembly (29A7)
57. Aft intercommunications jack (1W3J1)
58. Radio/IFF junction panel assembly (29A21)
59. Aft radio junction panel assembly (29A3)
60. 26 VAC sense relay cable assembly (29A7), emergency control relay cable assembly (27A5) and CVS control relay cable assembly (27A6)
61. Battery BB−433/U (27B1)
62. AN/ARC−102 terminal board assembly (5W4TB207)
63. Storage battery AV111050−1 (27B2)
64. Radio Receiver-Transmitter RT−698/ARC−102 (5A2) and Power inverter Mounting PP−3702/ARC−102 (5A1)
65. Antenna AT−741/A (14A6)
66. AN/ALR−46 terminal board assembly (33W6TB267)
67. Signal Processor CM−442/ALR−46(V) and mounting base (33A8)
68. Countermeasures Receiver R−1854/ALR−46(V) (33A3) and mount assembly
69. Transponder Set Test Set TS−1843A/APX (16A4) and Mount MT−3513/APX
70. Autopilot phase shifting transformer (11A11T1)
71. Shield Assembly (5A5)
72. Antenna Coupler CU−1658/A (5A4) and Mount MT−3772/A
73. Receiver-Transmitter RT−804A/APN−171(V) (15A1) and Vibration Mount MT−4167/APN−171
74. Computer KIT−1A/TSEC (16A3) and Mount MT−3949A/U
75. Filter F−1263/APN−171(V) (15FL1)
76. Mount MT−3802/ARC
77. Radio Receiver-Transmitter RT−742/ARC−51BX (2A2), Indicator ID−1003/ARC (2A4), Electronic Equipment Air Cooler HD−615/ARC−51BX (2A4) and Mounting MT−2653/ARC
78. Rotary Actuator TG−80/ASW−12(V) and Calibration Unit MX−2917/ASW−12(V) (11A7)
79. Rotary Actuator TG−81/ASW−12(V) and Calibration Unit MX−2918/ASW−12(V) (11A8)
80. Rotary Actuator TG−78/ASW−12(V) and Calibration Unit MX−2919/ASW−12(V) (11A6)
81. Transmitter Induction Compass DT−309( )/AJN or DT−376/AJN (29A8) and Compensator Detector CN−1072/AJN (29A9)
82. Wire Antenna Assembly (5A6)
83. VHF Navigational Antenna (8A3)
84. VOR antenna box assembly (8FL1)
85. Spiral antenna (33E2 and 33E3)
86. Antenna AT−741/A (16A8)
87. Amplifier Detector AM−6639/ALR−46(V) (33A5 and 33A6)
88. Antenna AS−1858/APN−171(V) (15A4)
89. Antenna (33E5)
90. Antenna AS−1858/APN−171(V) (15A3)
91. Towel Bar Homing Antenna AS−2042/ARC (4A5)
92. Filter (4FL1 and 4FL2)
93. Radio Receiver-Transmitter RT−859/APX−72 (16A2) and Mounting MT−3809/APX−72
94. Navigation Computer CP−941/ASN−86 (12A2) and Mounting MT−4075/ASN−86
95. Cooling air ducting, navigation computer and gyro stabilized platform
96. ASN−76/86 aft relay junction panel assembly (29A10)
97. Gyro Stabilized Platform MX−8123/ASN−86 (12A3) and mount assembly
98. Tubeaxial fan (12A5)
99. No. 3 inverter voltage sensor relay (27K1)
100. Voltage Control C−9606/A (27A4) and Mounting MT−4685/A
101. No. 3 inverter junction panel assembly (27A2)
102. Motor-Generator PU−750/A (27MG3)
103. Aft junction panel assembly (29A15)
104. VHF/UHF AM Antenna AT−1108/ARC (29A2)
105. Remote circuit breaker and AC-DC junction panel assembly (29A19)
106. Wire antenna assembly (9A5)
107. ARN−89 antenna shield assembly (9A3)
108. Motor-Generator PU−544/A (27MG2)
109. No. 2 inverter junction panel assembly (27A1)
110. Motor-Generator PU−545/A (27MG1)
111. Marker beacon antenna (10A4)

FO−1. Aircraft equipment location (sheet 2 of 2).

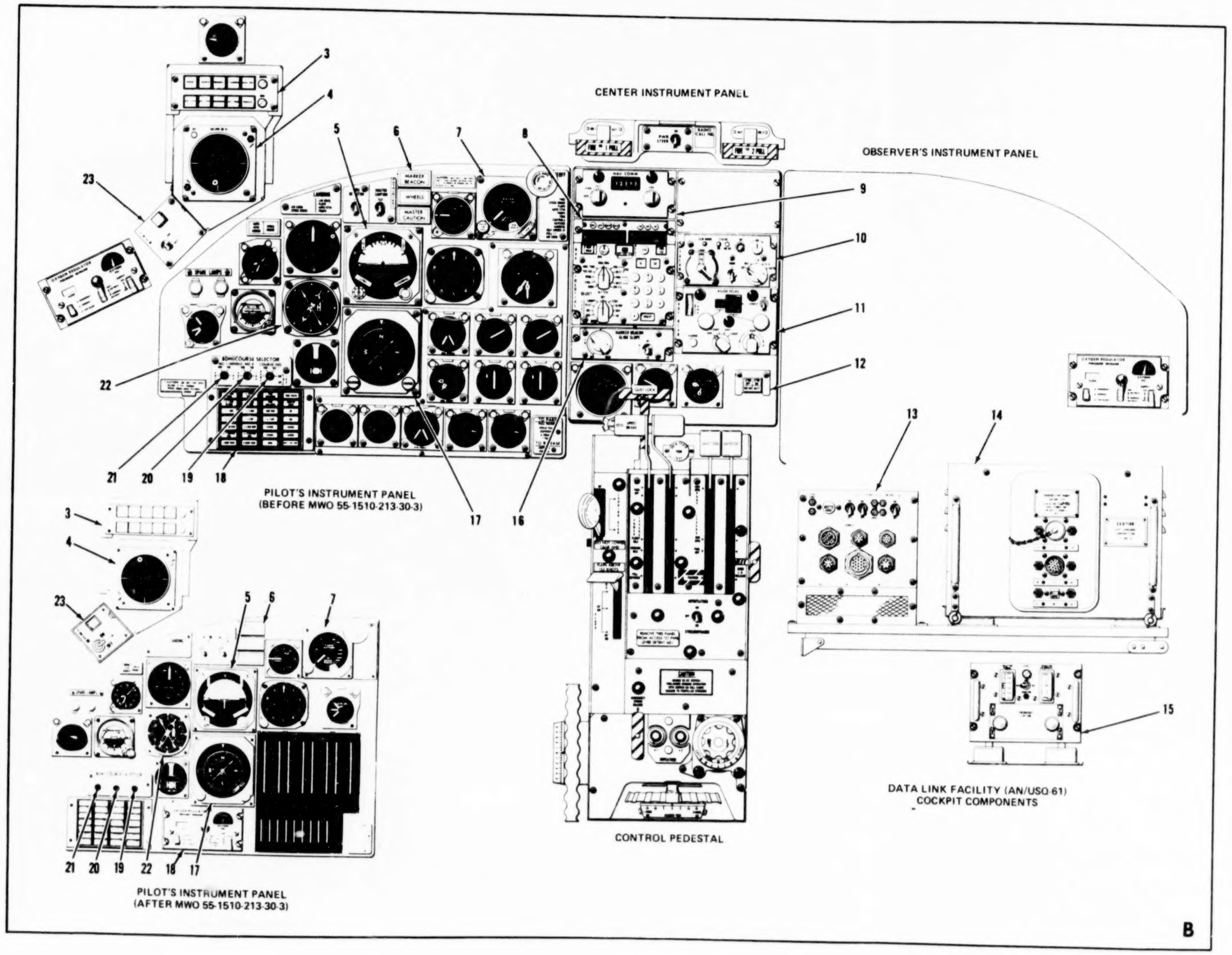

A
B
SEE VIEW B
(SHEET 2) FOR ALTERNATE
PILOT'S INSTRUMENT
PANEL CONFIGURATION
C
SLOPING CONSOLE
35

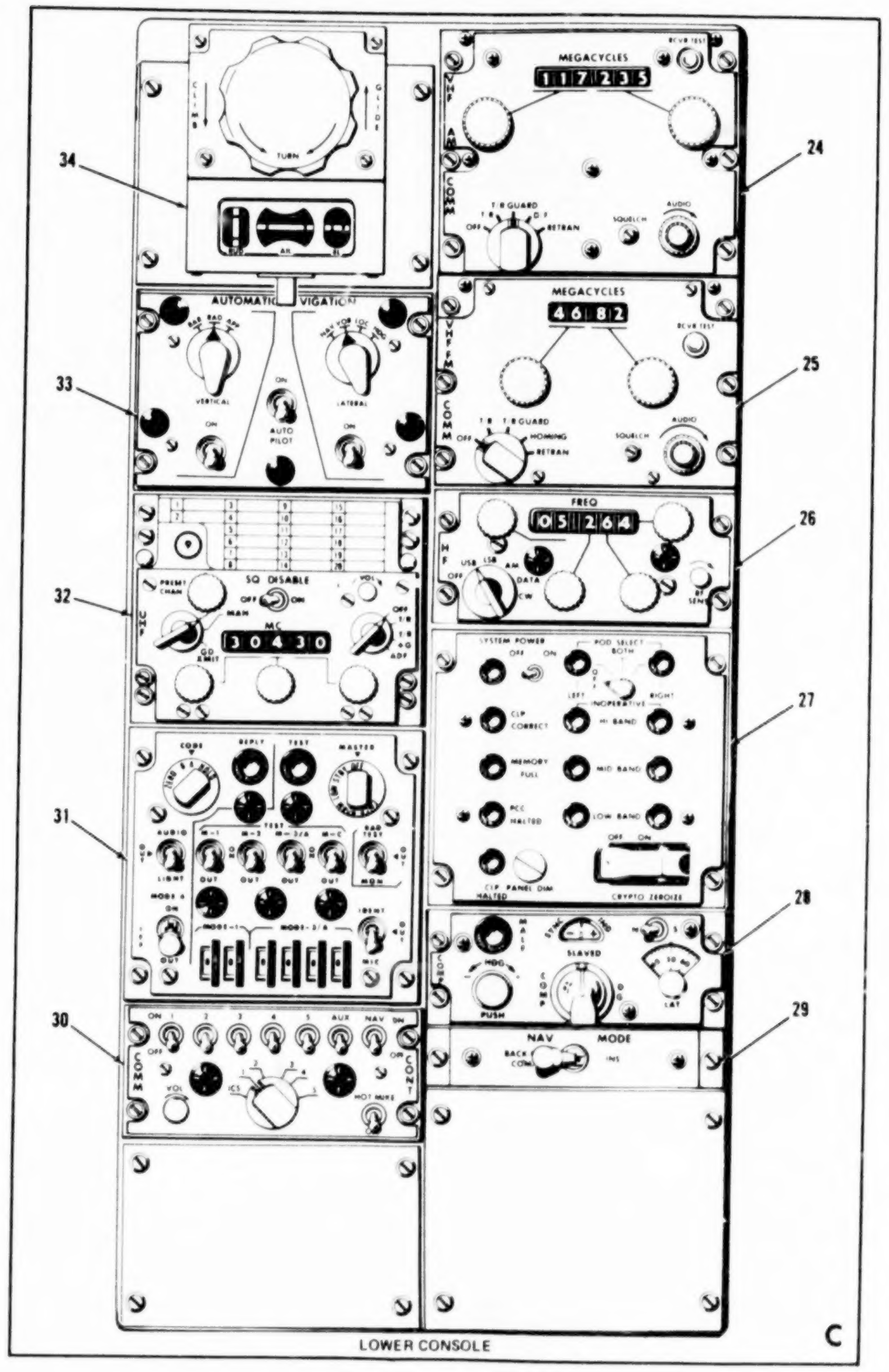

CENTER OVERHEAD PANEL
1
2
STORES SELECTOR
HATCH JETTISON
TURN
PULL
ENGINE
NO 1
NO 2
MASTER
ENG CRANK
CRANK
GEN PWR
ASSIST
FUEL
QTY TEST
DROP TANK
TRANSFER
PUMP TEST
PUMPS
QUANTITY
LEFT
RIGHT
EXTERIOR
LIGHTING
TAXI
COLLISION
WING & TAIL
LANDING
EXTEND
RETRACT
INTERIOR LIGHTING
CONSOLES
INSTRUMENTS
FLOODS
WEATHER CONTROL
PITOT
HEATER
DE ICING
ENGINE
WSHLD
WING & TAIL
ELECTRIC
GEN No 1
GEN No 2
BATTERY
INVERTER
SYS AIR SUPPLY
DEFOG
TOP/SIDE
AIR COND
AUTO
MANUAL
AUTO TEMP
COLD
HOT
LEFT OVERHEAD PANEL
RIGHT OVERHEAD PANEL
A

INFORMATION ON THIS SHEET PERTAINS TO AIRCRAFT NOT INCORPORATING MWO 55 1510 213 50 4

1EL2Z1140

Figure FO–2. Cockpit general arrangement (sheet 1 of 2)


CENTER INSTRUMENT PANEL
OBSERVER'S INSTRUMENT PANEL
3
4
5
6
7
8
9
10
11
12
23
22
21
20
19
18
17
16
PILOT'S INSTRUMENT PANEL
(BEFORE MWO 55-1510-213-30-3)
13
14
15
DATA LINK FACILITY (AN/USQ-61)
COCKPIT COMPONENTS
CONTROL PEDESTAL
3
4
23
5
6
7
21
20
19
22
18
17
PILOT'S INSTRUMENT PANEL
(AFTER MWO 55-1510-213-30-3)
B

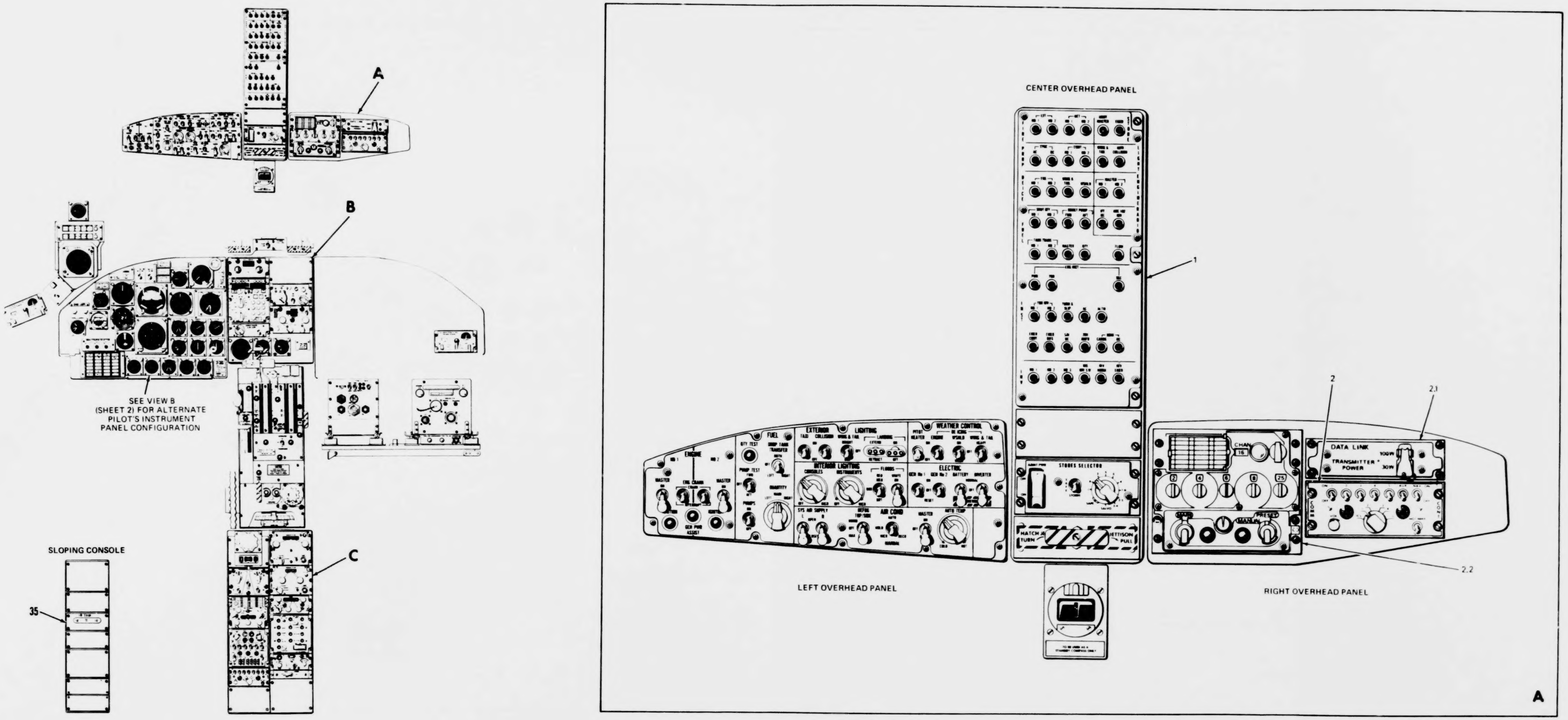

34
33
32
31
30
24
25
26
27
28
29
MEGACYCLES
AUTOMATIC NAVIGATION
SQ DISABLE
FREQ
NAV MODE
LOWER CONSOLE
C

1 Cockpit circuit breaker panel assembly (29A20)
2 Radio Set Control C – 6533/ARC (1A2)
3 Indicator Control ID – 1902/ALR – 46(V) (33A2)
4 Azimuth Indicator IP – 957/ALR – 36(V) (33A1)
5 Attitude Navigation Indicator ID – 882/ASN (7A2)
6 Marker beacon light (DS10)
7 Height Indicator ID – 1345A/APN – 171(V) (15A2)
8 Control Indicator ID – 1579/ASN – 86 (12A1)
9 Radio Set Control C – 6873/ARN – 82 or C – 6873A/ARN – 82 (8A1)
10 Navigation Set Control C – 8968/ARN – 103(V) (14A1)
11 Radio Set Control C – 7392/ARN – 89 (9A2)
12 Indicator Control Assembly ID – 1979/A (27A3)
13 Power Supply PP – 7036/USQ – 61 (31A2)
14 Radio Transmitting Set AN/ART – 41A (31A5) and Mount MT – 2530/A
15 Receiver R 2057/USQ 61 (31A4)
16 MARKER BEACON GLIDE SLOPE panel assembly (10A2)
17 Course Indicator ID – 883/ASN (7A1)
18 Caution lights panel
19 BDHI/COURSE SELECTOR COURSE IND switch (S3)
20 BDHI/COURSE SELECTOR NEEDLE NO 2 switch (S2)
21 BDHI/COURSE SELECTOR NEEDLE NO 1 switch (S1)
22 Bearing Distance Heading Indicator ID – 663B/U (29A5)
23 Countermeasures Set Control C – 10175/ALQ – 147 (30A2)
24 Radio Set AN/ARC – 115 (3A1)
25 Radio Set AN/ARC – 114 (4A1)
26 Radio Set Control C – 3940/ARC – 94 (5A1)
27 Indicator Control C – 9538/ALQ – 133 (32A5)
28 Reference Set Controller C – 8099/ASN – 76 (13A3)
29 NAV MODE control panel (29A12)
30 Radio Set Control C – 6433/ARC (1A1)
31 Control Transponder Set C – 6280(P)/APX (16A1)
32 Radio Set Control C – 6287/ARC – 518X (2A1)
33 Navigational Coupler CU – 792/ASW – 12(V) (11A2)
34 Controller mounting plate assembly (including Automatic Pilot Flight Controller C – 3107/ASW – 12(V) (11A1)
35 Sloping console circuit breaker panel (30A4) (Applies after incorporation of MWO 55 – 1510 – 213 – 50 – 3)

INFORMATION ON THIS SHEET PERTAINS TO AIRCRAFT NOT INCORPORATING MWO 55 1510 213 50 4

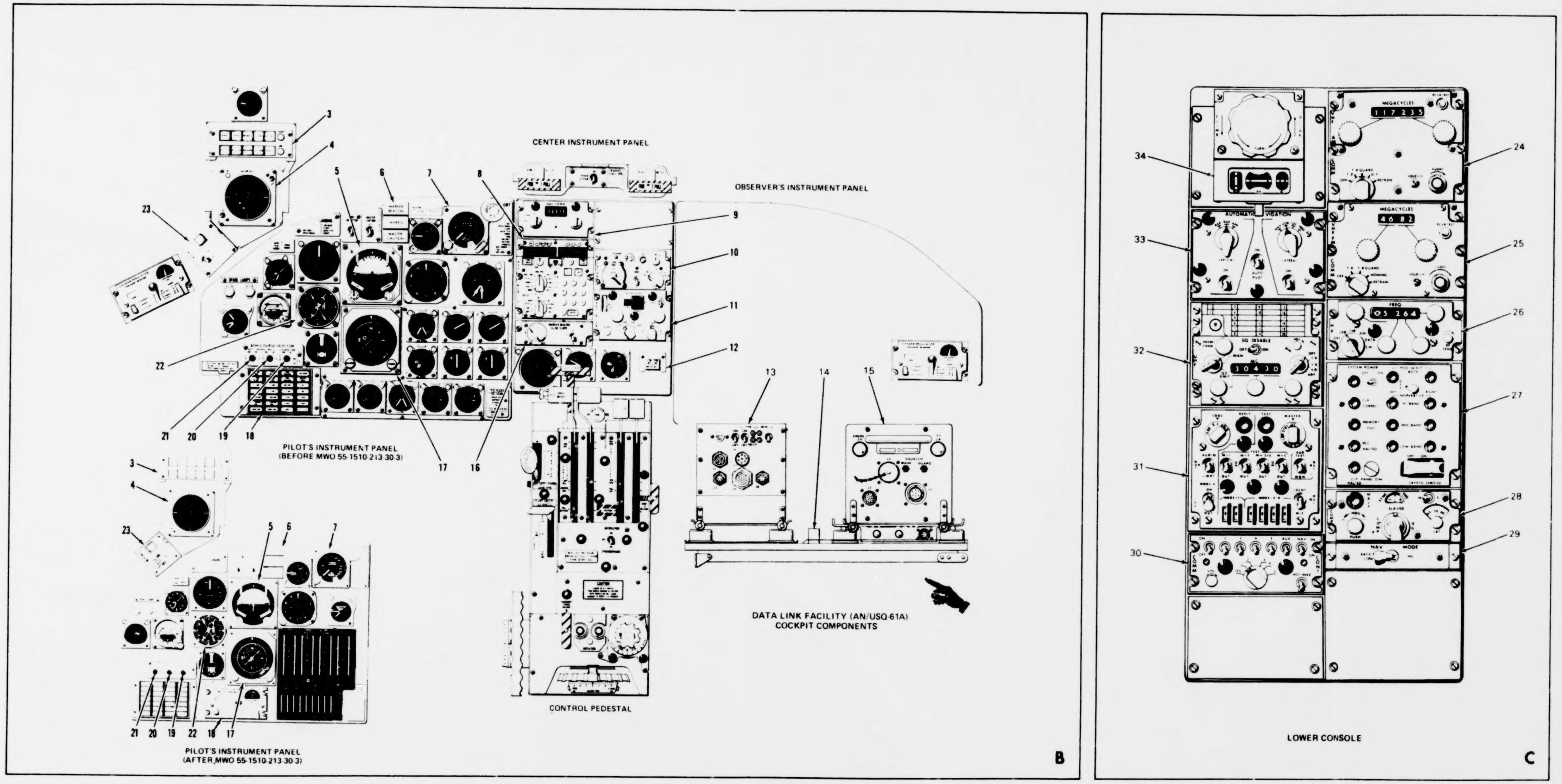
1 EL2ZT141

Figure FO–2. Cockpit general arrangement (sheet 2 of 2)


A
B
SEE VIEW B
(SHEET 2) FOR ALTERNATE
PILOT'S INSTRUMENT
PANEL CONFIGURATION
SLOPING CONSOLE
35
C
CENTER OVERHEAD PANEL
1
2
2.1
DATA LINK
TRANSMITTER POWER
100W
30W
2.2
LEFT OVERHEAD PANEL
RIGHT OVERHEAD PANEL
ENGINE
FUEL
EXTERIOR
LIGHTING
WEATHER CONTROL
INTERIOR LIGHTING
ELECTRIC
AIR COND
STROBES SELECTOR
HATCH TURN
JETTISON PULL
A

INFORMATION ON THIS SHEET PERTAINS
TO AIRCRAFT INCORPORATING
MWO 55 1510 213 50 4

Figure FO–2.1. Cockpit general arrangement (sheet 1 of 2)

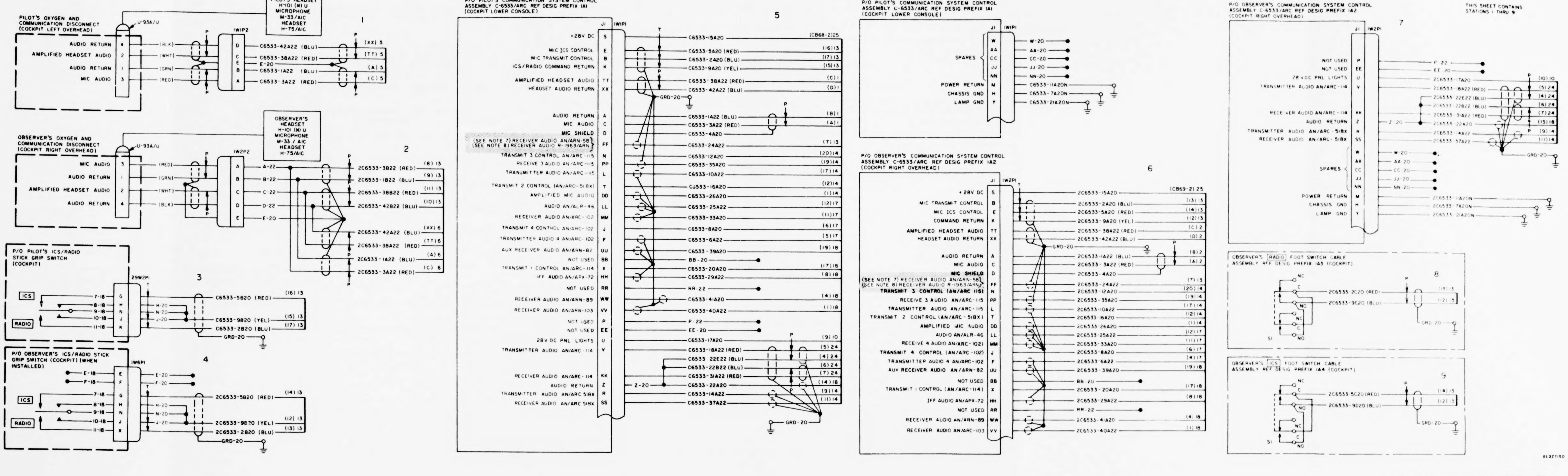

CENTER INSTRUMENT PANEL
OBSERVER'S INSTRUMENT PANEL
PILOT'S INSTRUMENT PANEL (BEFORE MWO 55-1510-213-30-3)
CONTROL PEDESTAL
DATA LINK FACILITY (AN/USQ-61A) COCKPIT COMPONENTS
PILOT'S INSTRUMENT PANEL (AFTER MWO 55-1510-213-30-3)
B
LOWER CONSOLE
C
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34

1	Cockpit circuit breaker panel assembly (29A20)
2	Radio Set Control C – 6533/ARC (1A2)
2.1	Data Link Power Panel (31A8)
2.2	Radio Set Control C – 10547/ARC – 164(V)
3.	Indicator Control ID – 1902/ALR – 46(V) (33A2)
4	Azimuth Indicator IP – 957/ALR – 36(V) (33A1)
5.	Attitude Navigation Indicator ID – 882/ASN (7A2)
6.	Marker beacon light (DS10)
7.	Height Indicator ID – 1345A/APN – 171(V) (15A2)
8.	Control Indicator ID – 1579/ASN – 86 (12A1)
9	Radio Set Control C – 6873/ARN 82 or C – 6873A/ARN – 82 (8A1)
10.	Navigation Set Control C – 8968/ARN – 103(V) (14A1)
11.	Radio Set Control C 7392/ARN – 89 (9A2)
12	Indicator Control Assembly ID – 1979/A (27A3)
13	Power Supply PP 7652 /USQ – 61A (31A2)
14	TB386
15	Transceiver RT 1288/ARC 164(V
16	MARKER BEACON GLIDE SLOPE panel assembly (10A2)
17	Course Indicator ID – 883/ASN (7A1)
18	Caution lights panel
19.	BDHI/COURSE SELECTOR COURSE IND switch (S3)
20	BDHI/COURSE SELECTOR NEEDLE NO 2 switch (S2)
21	BDHI/COURSE SELECTOR NEEDLE NO 1 switch (S1)
22	Bearing Distance Heading Indicator ID – 683B/U (29A5)
23	Countermeasures Set Control C – 10175/ALQ 147 (30A2)
24	Radio Set AN/ARC – 115 (3A1)
25	Radio Set AN/ARC – 114 (4A1)
26	Radio Set Control C – 3940/ARC – 94 (5A1)
27	Indicator Control C – 9538/ALQ – 133 (32A5)
28.	Reference Set Controller C – 8099/ASN – 76 (13A3)
29	NAV MODE control panel (29A12)
30.	Radio Set Control C – 6533/ARC (1A1)
31	Control Transponder Set C – 6280(P)/APX (16A1)
32	Radio Set Control C – 6287/ARC – 51BX (2A1)
33	Navigational Coupler CU – 792/ASW – 12(V) (11A2)
34	Controller mounting plate assembly (including Automatic Pilot Flight Controller C – 3107/ASW – 12(V)) (11A1)
35	Sloping console circuit breaker panel (30A4) (Applies after incorporation of MWO 55–1510–213–50–3.)

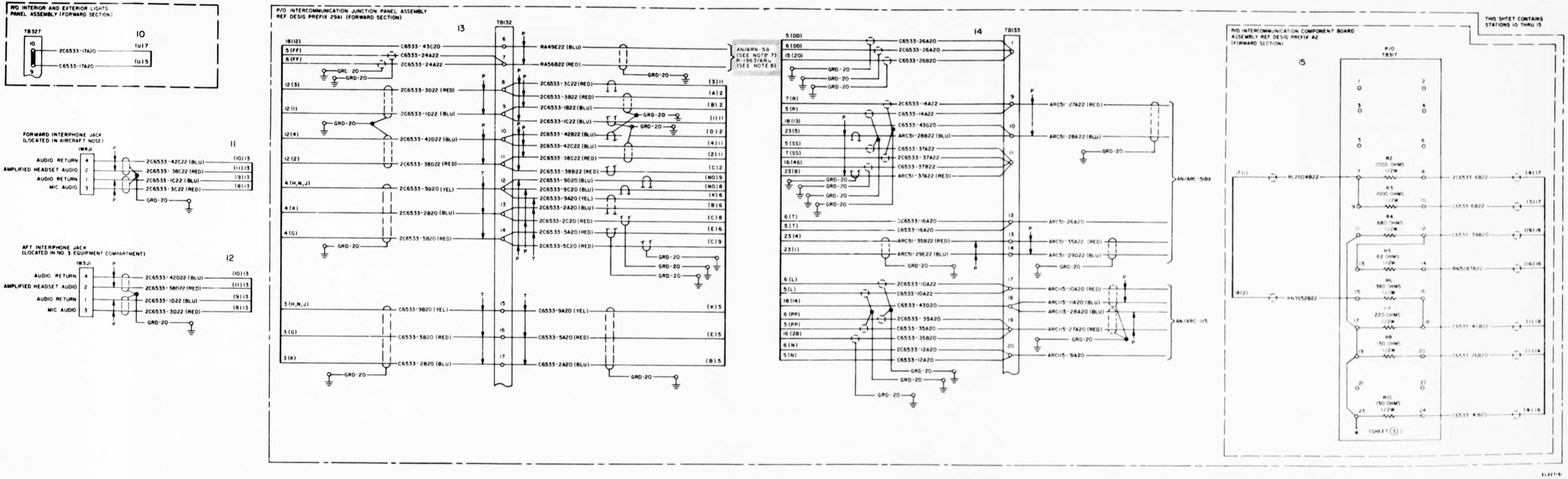
INFORMATION ON THIS SHEET PERTAINS TO AIRCRAFT INCORPORATING MWO 55-1510-213-50-4

1 EL22T377

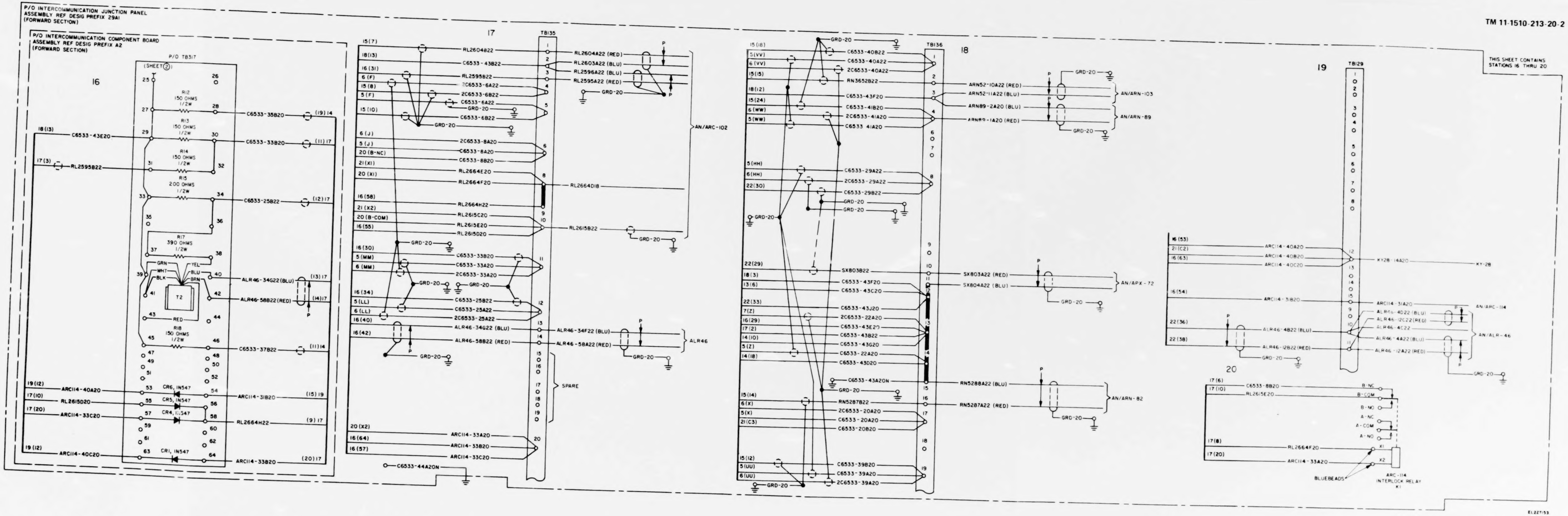
Figure FO–2.1. Cockpit general arrangement (sheet 2 of 2)


THIS SHEET CONTAINS STATIONS 1 THRU 9
PILOT'S OXYGEN AND COMMUNICATION DISCONNECT (COCKPIT LEFT OVERHEAD)
PILOT'S HEADSET H-101 (M) U MICROPHONE M-33/AIC HEADSET H-75/AIC
U-93A/U
1W1P2
1
OBSERVER'S OXYGEN AND COMMUNICATION DISCONNECT (COCKPIT RIGHT OVERHEAD)
OBSERVER'S HEADSET H-101 (M) U MICROPHONE M-33/AIC HEADSET H-75/AIC
1W2P2
2
P/O PILOT'S ICS/RADIO STICK GRIP SWITCH (COCKPIT)
29W2P1
3
ICS
RADIO
P/O OBSERVER'S ICS/RADIO STICK GRIP SWITCH (COCKPIT) (WHEN INSTALLED)
1W6P1
4
P/O PILOT'S COMMUNICATION SYSTEM CONTROL ASSEMBLY C-6533/ARC REF DESIG PREFIX 1A1 (COCKPIT LOWER CONSOLE)
J1
1W1P1
5
P/O PILOT'S COMMUNICATION SYSTEM CONTROL ASSEMBLY C-6533/ARC REF DESIG PREFIX 1A1 (COCKPIT LOWER CONSOLE)
SPARES
POWER RETURN
CHASSIS GND
LAMP GND
P/O OBSERVER'S COMMUNICATION SYSTEM CONTROL ASSEMBLY C-6533/ARC REF DESIG PREFIX 1A2 (COCKPIT RIGHT OVERHEAD)
1W2P1
6
P/O OBSERVER'S COMMUNICATION SYSTEM CONTROL ASSEMBLY C-6533/ARC REF DESIG PREFIX 1A2 (COCKPIT RIGHT OVERHEAD)
7
OBSERVER'S RADIO FOOT SWITCH CABLE ASSEMBLY REF DESIG PREFIX 1A3 (COCKPIT)
8
OBSERVER'S ICS FOOT SWITCH CABLE ASSEMBLY REF DESIG PREFIX 1A4 (COCKPIT)
9
S1
NC
C
NO
GRD-20
EL22T150

FO-3. Intercommunications facility wiring diagram (sheet 1 of 4).


P/O INTERIOR AND EXTERIOR LIGHTS PANEL ASSEMBLY (FORWARD SECTION)
TB327
10
2C6533-17A20
C6533-17A20
(U) 7
(U) 5
FORWARD INTERPHONE JACK (LOCATED IN AIRCRAFT NOSE)
1W4J1
11
AUDIO RETURN
AMPLIFIED HEADSET AUDIO
AUDIO RETURN
MIC AUDIO
2C6533-42C22 (BLU)
2C6533-38C22 (RED)
2C6533-1C22 (BLU)
2C6533-3C22 (RED)
GRD-20
AFT INTERPHONE JACK (LOCATED IN NO. 3 EQUIPMENT COMPARTMENT)
1W3J1
12
2C6533-42D22 (BLU)
2C6533-38D22 (RED)
2C6533-1D22 (BLU)
2C6533-3D22 (RED)
P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A1 (FORWARD SECTION)
13
TB132
AN/ARN-58 (SEE NOTE 7)
R-1963/ARN (SEE NOTE 8)
14
TB133
AN/ARC-51BX
AN/ARC-115
THIS SHEET CONTAINS STATIONS 10 THRU 15
P/O INTERCOMMUNICATION COMPONENT BOARD ASSEMBLY REF DESIG PREFIX A2 (FORWARD SECTION)
15
P/O TB317
(SHEET 3)
EL2271(5)

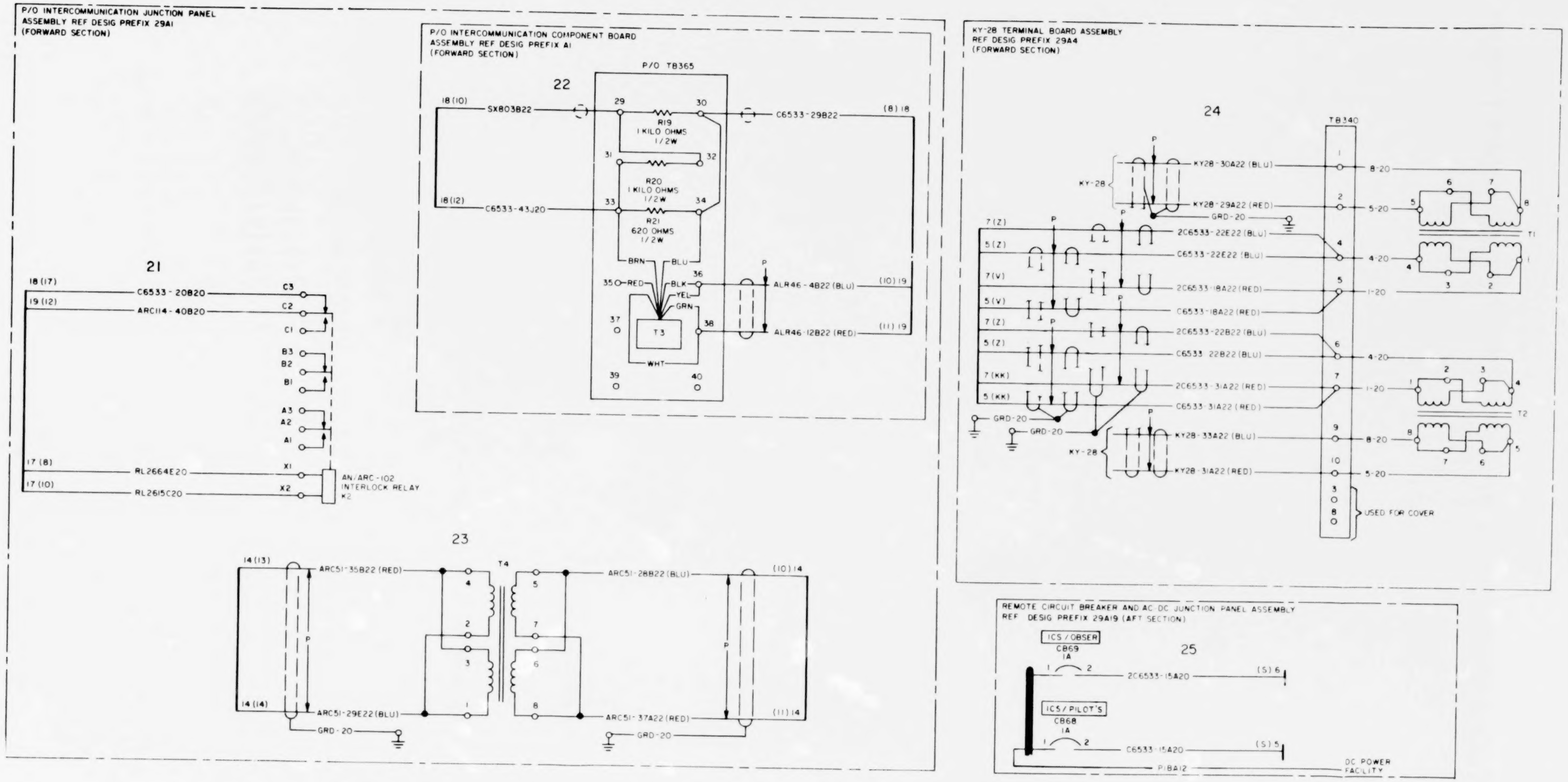
FO-3. Intercommunications facility wiring diagram (sheet 2 of 4).


P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A1 (FORWARD SECTION)
P/O INTERCOMMUNICATION COMPONENT BOARD ASSEMBLY REF DESIG PREFIX A2 (FORWARD SECTION)
P/O TB317
(SHEET ②)
16
17
18
19
20
TB135
TB136
TB129
THIS SHEET CONTAINS STATIONS 16 THRU 20
R12 150 OHMS 1/2W
R13 150 OHMS 1/2W
R14 150 OHMS 1/2W
R15 200 OHMS 1/2W
R17 390 OHMS 1/2W
R18 150 OHMS 1/2W
T2
CR6, 1N547
CR5, 1N547
CR4, 1N547
CR1, 1N547
AN/ARC-102
ALR46
SPARE
AN/ARN-103
AN/ARN-89
AN/APX-72
AN/ARN-82
AN/ARC-114
AN/ALR-46
KY-28
BLUEBEADS
ARC-114 INTERLOCK RELAY K1
GRD-20
P

FO-3. Intercommunications facility wiring diagram (sheet 3 of 4).

EL2ZT153

THIS SHEET CONTAINS
STATIONS 21 THRU 25


P/O INTERCOMMUNICATION JUNCTION PANEL
ASSEMBLY REF DESIG PREFIX 29A1
(FORWARD SECTION)
21
18 (17)
C6533-20B20
19 (12)
ARC114-40B20
C3
C2
C1
B3
B2
B1
A3
A2
A1
17 (8)
RL2664E20
17 (10)
RL2615C20
X1
X2
AN/ARC-102
INTERLOCK RELAY
K2
P/O INTERCOMMUNICATION COMPONENT BOARD
ASSEMBLY REF DESIG PREFIX A1
(FORWARD SECTION)
P/O TB365
22
18 (10)
SX803B22
29
30
R19
1 KILO OHMS
1/2W
C6533-29B22
(8) 18
31
32
R20
1 KILO OHMS
1/2W
18 (12)
C6533-43J20
33
34
R21
620 OHMS
1/2W
BRN
BLU
35
RED
BLK
YEL
GRN
36
37
38
T3
WHT
39
40
P
ALR46-4B22 (BLU)
(10) 19
ALR46-12B22 (RED)
(11) 19
23
14 (13)
ARC51-35B22 (RED)
T4
4
5
2
7
3
6
1
8
ARC51-28B22 (BLU)
(10) 14
P
14 (14)
ARC51-29E22 (BLU)
ARC51-37A22 (RED)
(11) 14
GRD-20
GRD-20
KY-28 TERMINAL BOARD ASSEMBLY
REF DESIG PREFIX 29A4
(FORWARD SECTION)
24
TB340
KY-28
P
KY28-30A22 (BLU)
KY28-29A22 (RED)
GRD-20
7 (Z)
5 (Z)
7 (V)
5 (V)
7 (Z)
5 (Z)
7 (KK)
5 (KK)
2C6533-22E22 (BLU)
C6533-22E22 (BLU)
2C6533-18A22 (RED)
C6533-18A22 (RED)
2C6533-22B22 (BLU)
C6533-22B22 (BLU)
2C6533-31A22 (RED)
C6533-31A22 (RED)
GRD-20
GRD-20
KY-28
KY28-33A22 (BLU)
KY28-31A22 (RED)
1
2
4
5
6
7
9
10
3
8
USED FOR COVER
8-20
5-20
4-20
1-20
4-20
1-20
8-20
5-20
T1
T2
REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19 (AFT SECTION)
25
ICS/OBSER
CB69
1A
1
2
2C6533-15A20
(S) 6
ICS/PILOT'S
CB68
1A
C6533-15A20
(S) 5
P1BA12
DC POWER
FACILITY

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

KY28 16 C 22 N
FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

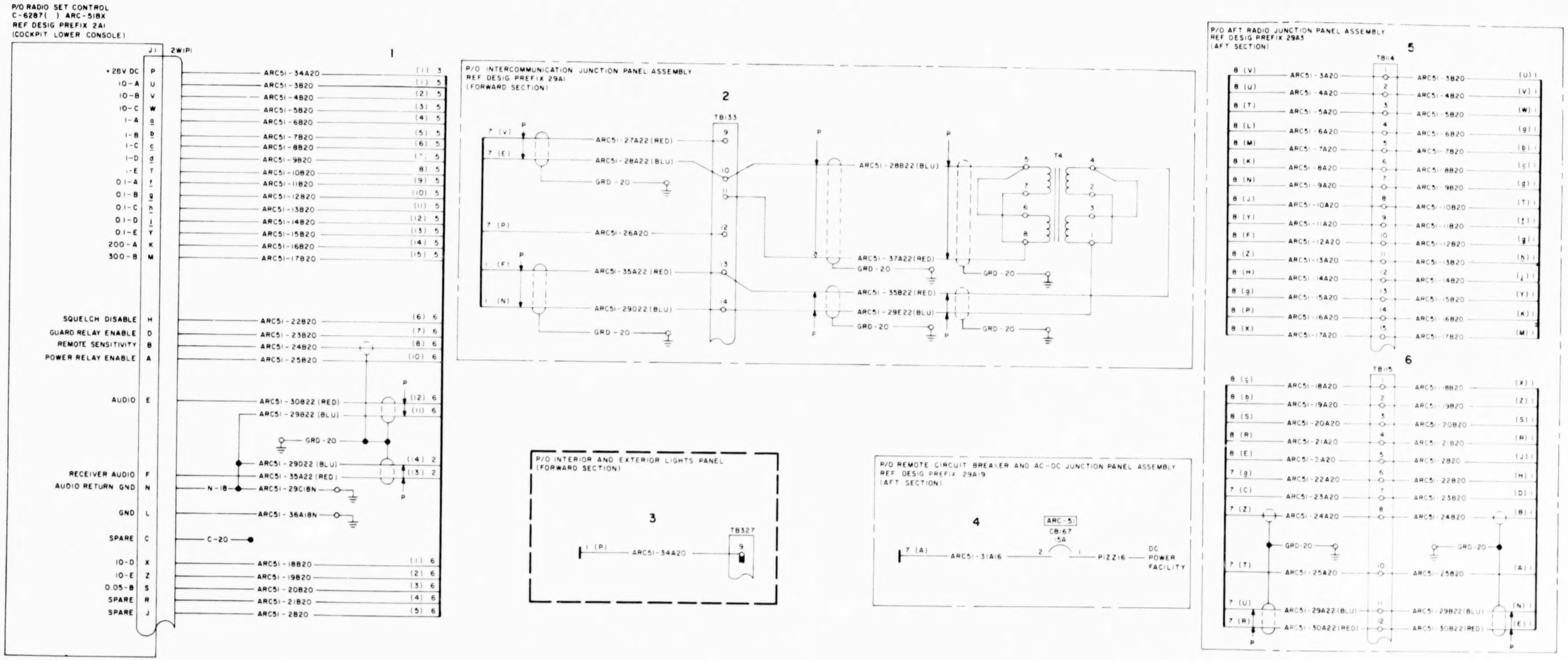
24 (BB)
BASE LINE — LOCATION — PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ☐ INDICATES EQUIPMENT MARKINGS.
5. —⊖— INDICATES SHIELD CONNECTION.
6. — — — FOR REFERENCE ONLY, REFER TO TM55-1510-213-23.
7. APPLIES BEFORE INCORPORATION OF MWO55-1510-213-50-1.
8. APPLIES AFTER INCORPORATION OF MWO55-1510-213-50-1.

EL2271-52

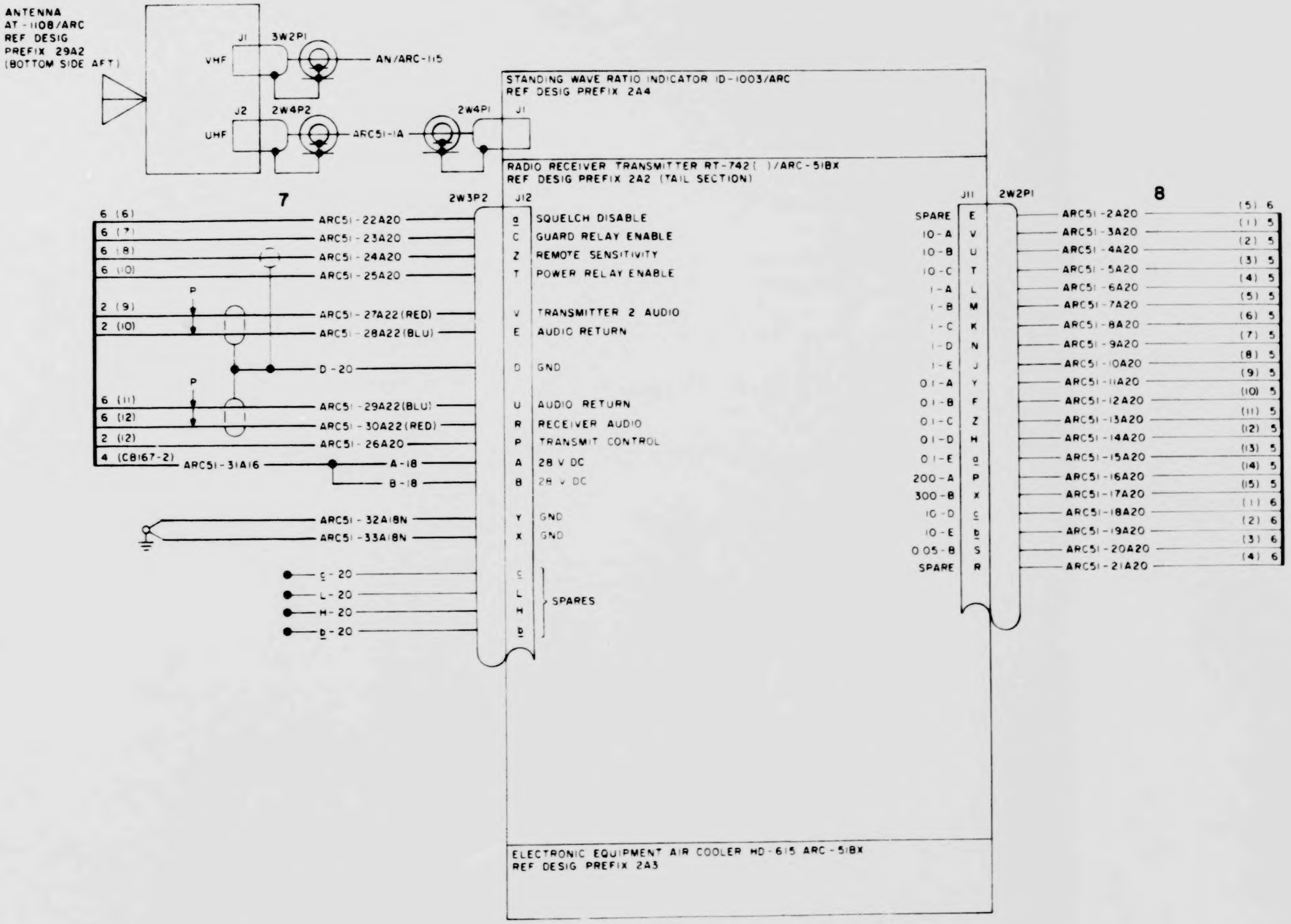
FO-3. Intercommunications facility wiring diagram (sheet 4 of 4).

THIS SHEET CONTAINS
STATIONS 1 THRU 6


P/O RADIO SET CONTROL C-6287( ) ARC-51BX REF DESIG PREFIX 2A1 (COCKPIT LOWER CONSOLE)
J1
2W1P1
1
+28V DC
10-A
10-B
10-C
1-A
1-B
1-C
1-D
1-E
0.1-A
0.1-B
0.1-C
0.1-D
0.1-E
200-A
300-B
SQUELCH DISABLE
GUARD RELAY ENABLE
REMOTE SENSITIVITY
POWER RELAY ENABLE
AUDIO
RECEIVER AUDIO
AUDIO RETURN GND
GND
SPARE
10-D
10-E
0.05-B
SPARE
SPARE
ARC51-34A20
ARC51-3B20
ARC51-4B20
ARC51-5B20
ARC51-6B20
ARC51-7B20
ARC51-8B20
ARC51-9B20
ARC51-10B20
ARC51-11B20
ARC51-12B20
ARC51-13B20
ARC51-14B20
ARC51-15B20
ARC51-16B20
ARC51-17B20
ARC51-22B20
ARC51-23B20
ARC51-24B20
ARC51-25B20
ARC51-30B22 (RED)
ARC51-29B22 (BLU)
GRD-20
ARC51-29D22 (BLU)
ARC51-35A22 (RED)
ARC51-29C18N
N-18
ARC51-36A18N
C-20
ARC51-18B20
ARC51-19B20
ARC51-20B20
ARC51-21B20
ARC51-2B20
P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A1 (FORWARD SECTION)
2
TB133
T4
ARC51-27A22 (RED)
ARC51-28A22 (BLU)
ARC51-26A20
ARC51-35A22 (RED)
ARC51-29D22 (BLU)
ARC51-28B22 (BLU)
ARC51-37A22 (RED)
ARC51-35B22 (RED)
ARC51-29E22 (BLU)
GRD-20
P/O INTERIOR AND EXTERIOR LIGHTS PANEL (FORWARD SECTION)
3
TB327
ARC51-34A20
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A19 (AFT SECTION)
4
ARC-51
CB167
5A
ARC51-31A16
P1Z16
DC POWER FACILITY
P/O AFT RADIO JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A3 (AFT SECTION)
5
TB114
ARC51-3A20
ARC51-4A20
ARC51-5A20
ARC51-6A20
ARC51-7A20
ARC51-8A20
ARC51-9A20
ARC51-10A20
ARC51-11A20
ARC51-12A20
ARC51-13A20
ARC51-14A20
ARC51-15A20
ARC51-16A20
ARC51-17A20
6
TB115
ARC51-18A20
ARC51-19A20
ARC51-20A20
ARC51-21A20
ARC51-2A20
ARC51-22A20
ARC51-23A20
ARC51-24A20
ARC51-25A20
ARC51-29A22 (BLU)
ARC51-30A22 (RED)
ARC51-29B22 (BLU)
ARC51-30B22 (RED)
EL2271S5

FO-4. AM UHF command facility wiring diagram (sheet 1 of 2).

THIS SHEET CONTAINS
STATIONS 7 AND 8.


ANTENNA
AT-1108/ARC
REF DESIG
PREFIX 29A2
(BOTTOM SIDE AFT)
VHF
UHF
J1
J2
3W2P1
2W4P2
AN/ARC-115
ARC51-1A
2W4P1
J1
STANDING WAVE RATIO INDICATOR ID-1003/ARC
REF DESIG PREFIX 2A4
RADIO RECEIVER TRANSMITTER RT-742( )/ARC-51BX
REF DESIG PREFIX 2A2 (TAIL SECTION)
7
2W3P2
J12
6 (6)
6 (7)
6 (8)
6 (10)
P
2 (9)
2 (10)
P
6 (11)
6 (12)
2 (12)
4 (CB167-2)
ARC51-22A20
ARC51-23A20
ARC51-24A20
ARC51-25A20
ARC51-27A22(RED)
ARC51-28A22(BLU)
D-20
ARC51-29A22(BLU)
ARC51-30A22(RED)
ARC51-26A20
ARC51-31A16
A-18
B-18
ARC51-32A18N
ARC51-33A18N
c-20
L-20
H-20
b-20
a SQUELCH DISABLE
C GUARD RELAY ENABLE
Z REMOTE SENSITIVITY
T POWER RELAY ENABLE
V TRANSMITTER 2 AUDIO
E AUDIO RETURN
D GND
U AUDIO RETURN
R RECEIVER AUDIO
P TRANSMIT CONTROL
A 28 V DC
B 28 V DC
Y GND
X GND
c
L
H
b
SPARES
J11
2W2P1
8
SPARE E
10-A V
10-B U
10-C T
1-A L
1-B M
1-C K
1-D N
1-E J
01-A Y
01-B F
01-C Z
01-D H
01-E a
200-A P
300-B X
10-D c
10-E b
0.05-B S
SPARE R
ARC51-2A20
ARC51-3A20
ARC51-4A20
ARC51-5A20
ARC51-6A20
ARC51-7A20
ARC51-8A20
ARC51-9A20
ARC51-10A20
ARC51-11A20
ARC51-12A20
ARC51-13A20
ARC51-14A20
ARC51-15A20
ARC51-16A20
ARC51-17A20
ARC51-18A20
ARC51-19A20
ARC51-20A20
ARC51-21A20
(5) 6
(1) 5
(2) 5
(3) 5
(4) 5
(5) 5
(6) 5
(7) 5
(8) 5
(9) 5
(10) 5
(11) 5
(12) 5
(13) 5
(14) 5
(15) 5
(1) 6
(2) 6
(3) 6
(4) 6
ELECTRONIC EQUIPMENT AIR COOLER HD-615 ARC-51BX
REF DESIG PREFIX 2A3

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

KY28 16 C 22 N
FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

24 (8B)
BASE LINE
LOCATION
PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4. [ ] INDICATES EQUIPMENT MARKINGS.

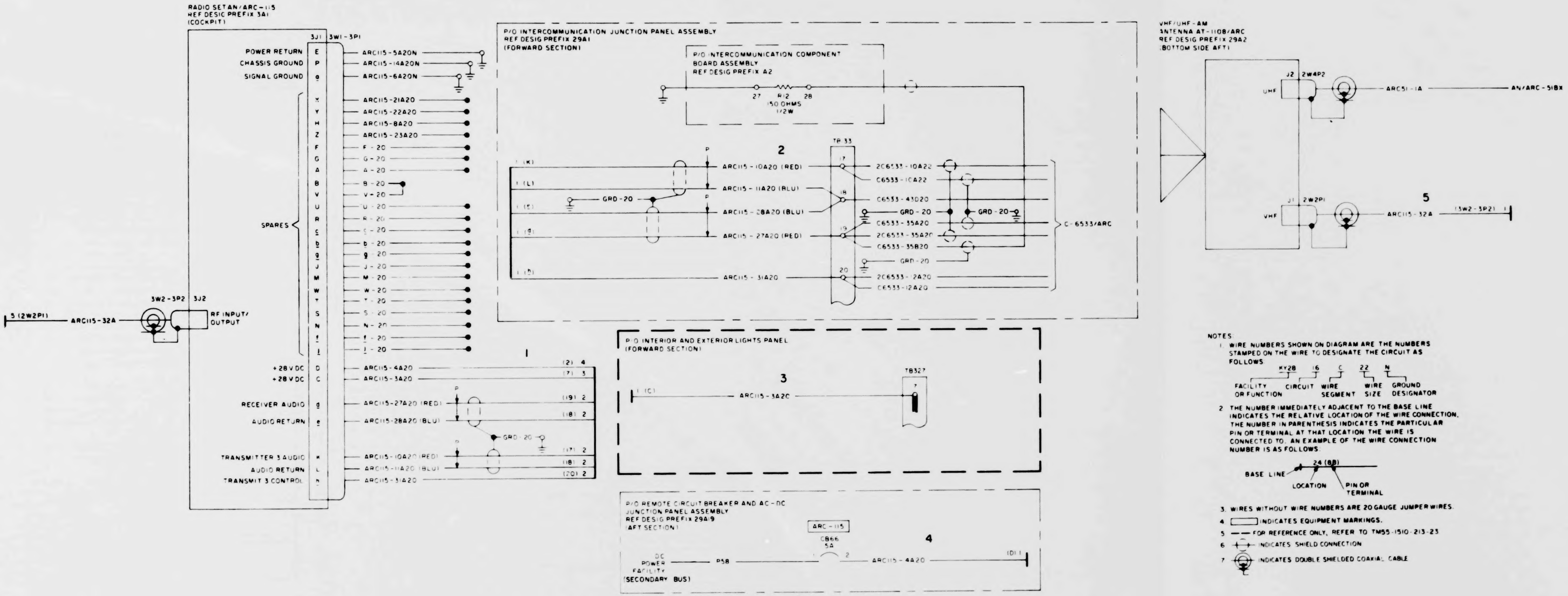
5. INDICATES DOUBLE SHIELDED COAXIAL CABLE

6. INDICATES SHIELD CONNECTION.

7. — — — SHOWN FOR REFERENCE ONLY, REFER TM55-1510-213-23

EL22T156

FO-4. AM UHF command facility wiring diagram (sheet 2 of 2).


RADIO SET AN/ARC-115
REF DESIG PREFIX 3A1
(COCKPIT)
3J1
3W1-3P1
POWER RETURN
CHASSIS GROUND
SIGNAL GROUND
E
P
a
ARC115-5A20N
ARC115-14A20N
ARC115-6A20N
SPARES
X
Y
H
Z
F
G
A
B
V
U
R
c
b
g
J
M
W
T
S
N
f
j
ARC115-21A20
ARC115-22A20
ARC115-8A20
ARC115-23A20
F-20
G-20
A-20
B-20
V-20
U-20
R-20
c-20
b-20
g-20
J-20
M-20
W-20
T-20
S-20
N-20
f-20
j-20
+28 V DC
+28 V DC
D
C
ARC115-4A20
ARC115-3A20
RECEIVER AUDIO
AUDIO RETURN
d
e
ARC115-27A20 (RED)
ARC115-28A20 (BLU)
TRANSMITTER 3 AUDIO
AUDIO RETURN
TRANSMIT 3 CONTROL
K
L
h
ARC115-10A20 (RED)
ARC115-11A20 (BLU)
ARC115-31A20
P
GRD-20
1
(2) 4
(7) 3
(19) 2
(18) 2
(17) 2
(18) 2
(20) 2
5 (2W2P1)
ARC115-32A
3W2-3P2
3J2
RF INPUT/
OUTPUT
P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A1
(FORWARD SECTION)
P/O INTERCOMMUNICATION COMPONENT
BOARD ASSEMBLY
REF DESIG PREFIX A2
27
R12
28
150 OHMS
1/2W
2
TB 33
1 (K)
1 (L)
1 (e)
1 (d)
1 (h)
GRD-20
ARC115-10A20 (RED)
ARC115-11A20 (BLU)
ARC115-28A20 (BLU)
ARC115-27A20 (RED)
ARC115-31A20
17
18
19
20
2C6533-10A22
C6533-10A22
C6533-43D20
GRD-20
C6533-35A20
2C6533-35A20
C6533-35B20
GRD-20
2C6533-12A20
C6533-12A20
GRD-20
C-6533/ARC
P/O INTERIOR AND EXTERIOR LIGHTS PANEL
(FORWARD SECTION)
3
1 (C)
ARC115-3A20
TB327
7
P/O REMOTE CIRCUIT BREAKER AND AC-DC
JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
ARC-115
CB66
5A
4
DC
POWER
FACILITY
(SECONDARY BUS)
P58
1
2
ARC115-4A20
(D) 1
VHF/UHF-AM
ANTENNA AT-1108/ARC
REF DESIG PREFIX 29A2
(BOTTOM SIDE AFT)
UHF
J2
2W4P2
ARC51-1A
AN/ARC-51BX
VHF
J1
2W2P1
5
ARC115-32A
(3W2-3P2) 1

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

KY28 16 C 22 N
FACILITY OR FUNCTION; CIRCUIT; WIRE SEGMENT; WIRE SIZE; GROUND DESIGNATOR

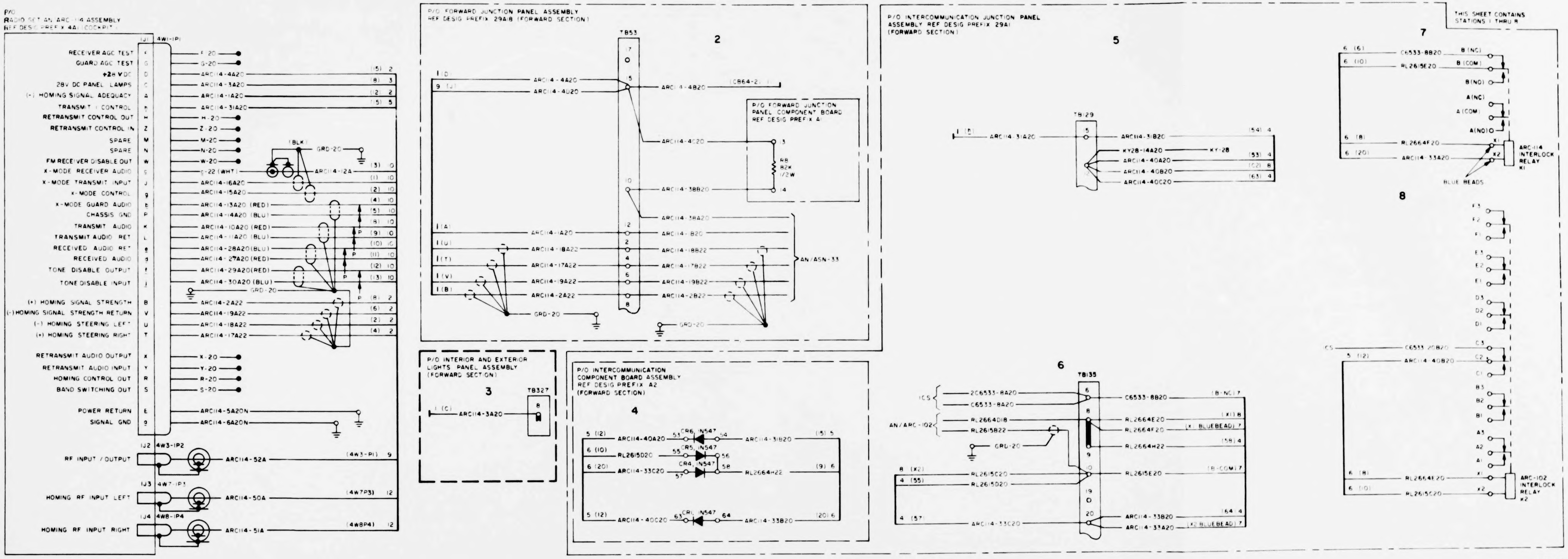
2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

24 (BB)
BASE LINE
LOCATION
PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. — — FOR REFERENCE ONLY, REFER TO TM55-1510-213-23
6. INDICATES SHIELD CONNECTION
7. INDICATES DOUBLE SHIELDED COAXIAL CABLE

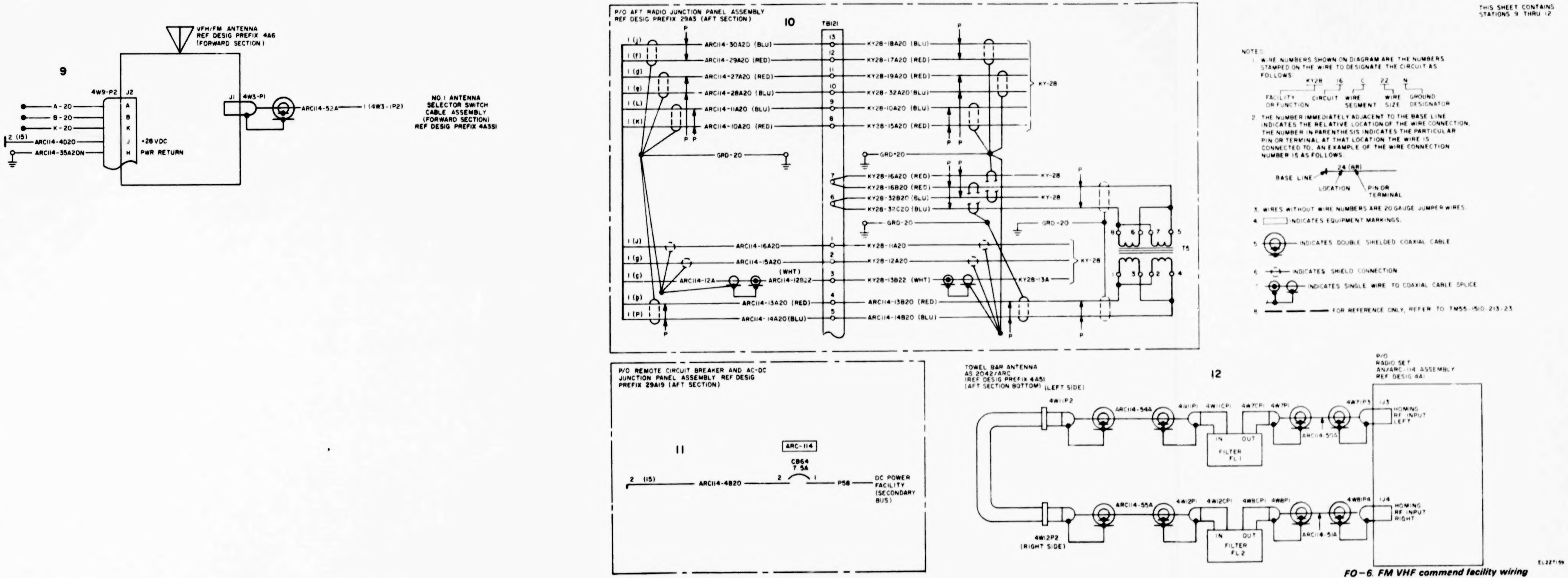
EL22T157

FO-5. AM VHF command facility wiring diagram.


P/O RADIO SET AN/ARC-114 ASSEMBLY REF DESIG PREFIX 4A1 (COCKPIT)
1J1
4W1-1P1
RECEIVER AGC TEST
GUARD AGC TEST
+28 VDC
28V DC PANEL LAMPS
(-) HOMING SIGNAL ADEQUACY
TRANSMIT CONTROL
RETRANSMIT CONTROL OUT
RETRANSMIT CONTROL IN
SPARE
SPARE
FM RECEIVER DISABLE OUT
X-MODE RECEIVER AUDIO
X-MODE TRANSMIT INPUT
X-MODE CONTROL
X-MODE GUARD AUDIO
CHASSIS GND
TRANSMIT AUDIO
TRANSMIT AUDIO RET
RECEIVED AUDIO RET
RECEIVED AUDIO
TONE DISABLE OUTPUT
TONE DISABLE INPUT
(+) HOMING SIGNAL STRENGTH
(-) HOMING SIGNAL STRENGTH RETURN
(-) HOMING STEERING LEFT
(+) HOMING STEERING RIGHT
RETRANSMIT AUDIO OUTPUT
RETRANSMIT AUDIO INPUT
HOMING CONTROL OUT
BAND SWITCHING OUT
POWER RETURN
SIGNAL GND
RF INPUT / OUTPUT
HOMING RF INPUT LEFT
HOMING RF INPUT RIGHT
1J2 4W3-1P2
1J3 4W7-1P3
1J4 4W8-1P4
ARC114-52A
ARC114-50A
ARC114-51A
(4W3-P1) 9
(4W7P3) 12
(4W8P4) 12
ARC114-5A20N
ARC114-6A20N
(BLK)
GRD-20
(WHT)
P/O FORWARD JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A18 (FORWARD SECTION)
2
TB53
P/O FORWARD JUNCTION PANEL COMPONENT BOARD REF DESIG PREFIX A
R8 82K 1/2W
AN/ASN-33
(CB64-2)
P/O INTERIOR AND EXTERIOR LIGHTS PANEL ASSEMBLY (FORWARD SECTION)
3
TB327
ARC114-3A20
P/O INTERCOMMUNICATION COMPONENT BOARD ASSEMBLY REF DESIG PREFIX A2 (FORWARD SECTION)
4
CR6 1N547
CR5 1N547
CR4 1N547
CR1 1N547
P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A1 (FORWARD SECTION)
5
TB129
KY28-14A20
KY-28
6
TB135
ICS
AN/ARC-102
(X BLUEBEAD)
(X2 BLUEBEAD)
THIS SHEET CONTAINS STATIONS 1 THRU 8
7
ARC-114 INTERLOCK RELAY K1
BLUE BEADS
8
ARC-102 INTERLOCK RELAY K2
EL2271S8

FO-6. FM VHF command facility wiring diagram (sheet 1 of 2).

THIS SHEET CONTAINS
STATIONS 9 THRU 12


9
VFH/FM ANTENNA
REF DESIG PREFIX 4A6
(FORWARD SECTION)
4W9-P2
J2
A - 20
B - 20
K - 20
2 (15)
ARC114-4D20
ARC114-35A20N
A
B
K
J
H
+28 VDC
PWR RETURN
J1
4W3-P1
ARC114-52A
1 (4W3-1P2)
NO. 1 ANTENNA
SELECTOR SWITCH
CABLE ASSEMBLY
(FORWARD SECTION)
REF DESIG PREFIX 4A3S1
P/O AFT RADIO JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A3 (AFT SECTION)
10
TB121
1 (j)
1 (f)
1 (g)
1 (g)
1 (L)
1 (K)
P
ARC114-30A20 (BLU)
ARC114-29A20 (RED)
ARC114-27A20 (RED)
ARC114-28A20 (BLU)
ARC114-11A20 (BLU)
ARC114-10A20 (RED)
13
12
11
10
9
8
KY28-18A20 (BLU)
KY28-17A20 (RED)
KY28-19A20 (RED)
KY28-32A20 (BLU)
KY28-10A20 (BLU)
KY28-15A20 (RED)
KY-28
GRD-20
GRD-20
7
6
KY28-16A20 (RED)
KY28-16B20 (RED)
KY28-32B20 (BLU)
KY28-32C20 (BLU)
KY-28
KY-28
GRD-20
GRD-20
1 (J)
1 (g)
1 (c)
1 (b)
1 (P)
ARC114-16A20
ARC114-15A20
ARC114-12A
(WHT)
ARC114-12B22
ARC114-13A20 (RED)
ARC114-14A20 (BLU)
1
2
3
4
5
KY28-11A20
KY28-12A20
KY28-13B22 (WHT)
ARC114-13B20 (RED)
ARC114-14B20 (BLU)
KY28-13A
KY-28
8
6
7
5
1
3
2
4
T5
P/O REMOTE CIRCUIT BREAKER AND AC-DC
JUNCTION PANEL ASSEMBLY REF DESIG
PREFIX 29A19 (AFT SECTION)
11
ARC-114
CB64
7.5A
2 (15)
ARC114-4B20
2
1
P58
DC POWER
FACILITY
(SECONDARY
BUS)
TOWEL BAR ANTENNA
AS 2042/ARC
(REF DESIG PREFIX 4A5)
(AFT SECTION BOTTOM) (LEFT SIDE)
12
4W11P2
ARC114-54A
4W11P1
4W11CP1
4W7CP1
4W7P1
4W71P3
1J3
IN
OUT
FILTER
FL 1
ARC114-50A
HOMING
RF INPUT
LEFT
4W12P2
(RIGHT SIDE)
ARC114-55A
4W12P1
4W12CP1
4W8CP1
4W8P1
4W81P4
1J4
IN
OUT
FILTER
FL 2
ARC114-51A
HOMING
RF INPUT
RIGHT
P/O
RADIO SET
AN/ARC-114 ASSEMBLY
REF DESIG 4A1
EL22T159

FO-6. FM VHF commend facility wiring diagram (sheet 2 of 2).

NOTES:

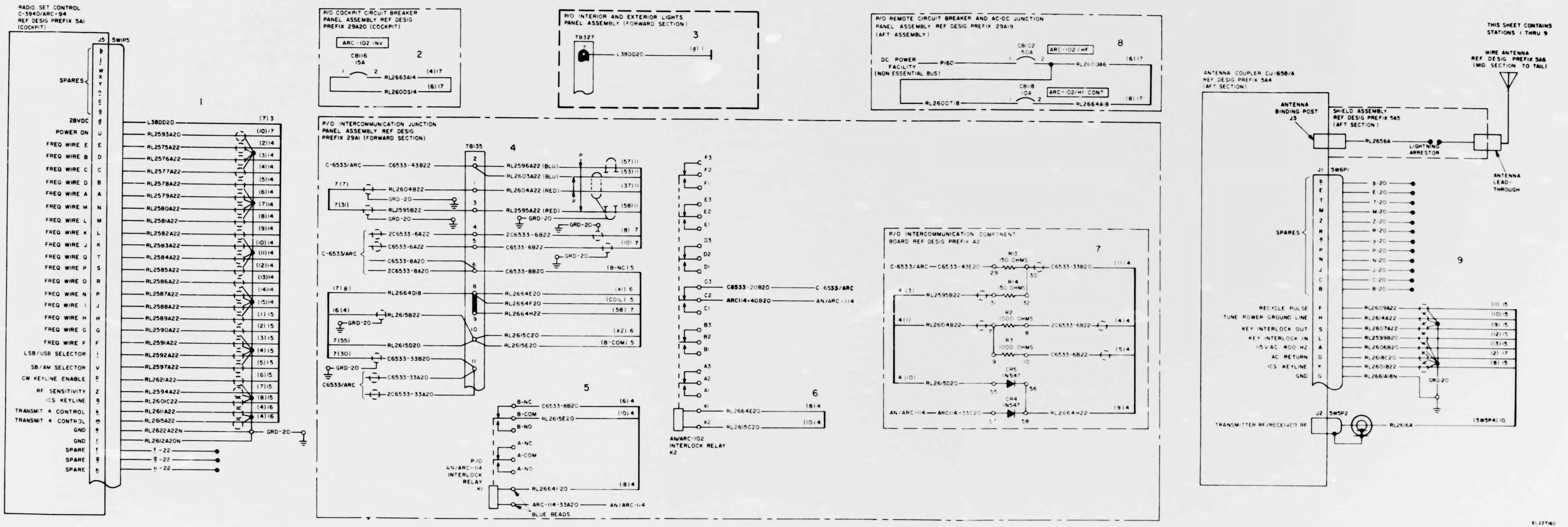
1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   KY28 16 C 22 N
   FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

   24 (8B)
   BASE LINE — LOCATION — PIN OR TERMINAL

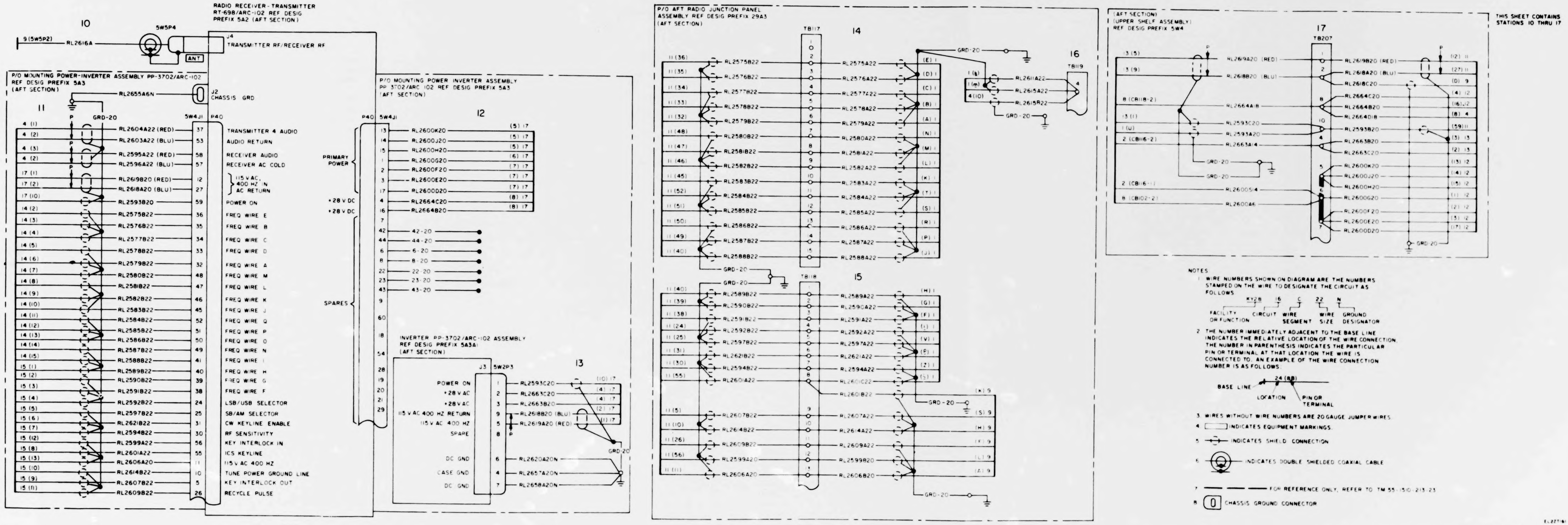
3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ☐ INDICATES EQUIPMENT MARKINGS.
5. ◎ INDICATES DOUBLE SHIELDED COAXIAL CABLE
6. INDICATES SHIELD CONNECTION
7. INDICATES SINGLE WIRE TO COAXIAL CABLE SPLICE
8. — — — FOR REFERENCE ONLY, REFER TO TM55-1510-213-23


RADIO SET CONTROL
C-3940/ARC-94
REF DESIG PREFIX 5A1
(COCKPIT)
J5
5W1P5
SPARES
b
j
W
X
Y
n
c
a
28VDC
POWER ON
FREQ WIRE E
FREQ WIRE B
FREQ WIRE C
FREQ WIRE D
FREQ WIRE A
FREQ WIRE M
FREQ WIRE L
FREQ WIRE K
FREQ WIRE J
FREQ WIRE Q
FREQ WIRE P
FREQ WIRE O
FREQ WIRE N
FREQ WIRE I
FREQ WIRE H
FREQ WIRE G
FREQ WIRE F
LSB/USB SELECTOR
SB/AM SELECTOR
CW KEYLINE ENABLE
RF SENSITIVITY
ICS KEYLINE
TRANSMIT 4 CONTROL
TRANSMIT 4 CONTROL
GND
GND
SPARE
SPARE
SPARE
1
L38DD20
RL2593A20
RL2575A22
RL2576A22
RL2577A22
RL2578A22
RL2579A22
RL2580A22
RL2581A22
RL2582A22
RL2583A22
RL2584A22
RL2585A22
RL2586A22
RL2587A22
RL2588A22
RL2589A22
RL2590A22
RL2591A22
RL2592A22
RL2597A22
RL2621A22
RL2594A22
RL2601C22
RL2611A22
RL2615A22
RL2622A22N
RL2612A20N
f-22
g-22
h-22
GRD-20
(7) 3
(10) 17
(2) 14
(3) 14
(4) 14
(5) 14
(6) 14
(7) 14
(8) 14
(9) 14
(10) 14
(11) 14
(12) 14
(13) 14
(14) 14
(15) 14
(1) 15
(2) 15
(3) 15
(4) 15
(5) 15
(6) 15
(7) 15
(8) 15
(4) 16
(4) 16
P/O COCKPIT CIRCUIT BREAKER PANEL ASSEMBLY REF DESIG PREFIX 29A20 (COCKPIT)
ARC-102 INV
2
CB116
15A
RL2663A14
(4) 17
RL2600S14
(6) 17
P/O INTERIOR AND EXTERIOR LIGHTS PANEL ASSEMBLY (FORWARD SECTION)
3
TB327
7
L38DD20
(d) 1
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A19 (AFT ASSEMBLY)
8
DC POWER FACILITY (NON ESSENTIAL BUS)
P160
CB102
50A
ARC-102/HF
RL2600A6
(6) 17
CB118
10A
ARC-102/HF CONT
RL2600T18
RL2664A18
(8) 17
P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A1 (FORWARD SECTION)
TB135
4
C-6533/ARC
C6533-43B22
RL2596A22 (BLU)
RL2603A22 (BLU)
(57) 11
(53) 11
7 (7)
RL2604B22
GRD-20
RL2604A22 (RED)
(37) 11
7 (31)
RL2595B22
GRD-20
RL2595A22 (RED)
(58) 11
P
P
GRD-20
GRD-20
C-6533/ARC
2C6533-6A22
C6533-6A22
C6533-8A20
2C6533-8A20
2C6533-6B22
C6533-6B22
(8) 7
(10) 7
GRD-20
C6533-8B20
(B-NC) 5
17 (8)
RL2664D18
RL2664E20
(X1) 6
RL2664F20
(COIL) 5
RL2664H22
(58) 7
16 (4)
RL2615B22
GRD-20
7 (55)
RL2615D20
RL2615C20
(X2) 6
RL2615E20
(B-COM) 5
7 (30)
C6533-33B20
GRD-20
C6533/ARC
C6533-33A20
2C6533-33A20
5
B-NC
C6533-8B20
(6) 4
B-COM
RL2615E20
(10) 4
B-NO
A-NC
A-COM
A-NO
P/O AN/ARC-114 INTERLOCK RELAY K1
RL2664F20
(8) 4
ARC-114-33A20
AN/ARC-114
BLUE BEADS
F3
F2
F1
E3
E2
E1
D3
D2
D1
C3
C2
C1
B3
B2
B1
A3
A2
A1
X1
X2
C6533-20B20
C-6533/ARC
ARC114-40B20
AN/ARC-114
6
RL2664E20
(8) 4
RL2615C20
(10) 4
AN/ARC-102 INTERLOCK RELAY K2
P/O INTERCOMMUNICATION COMPONENT BOARD REF DESIG PREFIX A2
7
C-6533/ARC
C6533-43E20
R13
150 OHMS
29
30
C6533-33B20
(11) 4
4 (3)
RL2595B22
R14
150 OHMS
31
32
4 (1)
RL2604B22
R2
1000 OHMS
7
8
2C6533-6B22
(4) 4
R3
1000 OHMS
9
10
C6533-6B22
(5) 4
4 (10)
RL2615D20
CR5
1N547
55
56
AN/ARC-114
ARC114-33C20
CR4
1N547
57
58
RL2664H22
(9) 4
ANTENNA COUPLER CU-1658/A
REF DESIG PREFIX 5A4
(AFT SECTION)
ANTENNA BINDING POST J3
SHIELD ASSEMBLY REF DESIG PREFIX 5A5 (AFT SECTION)
RL2656A
LIGHTNING ARRESTOR
WIRE ANTENNA REF DESIG PREFIX 5A6 (MID SECTION TO TAIL)
ANTENNA LEAD-THROUGH
J1
5W6P1
SPARES
b
E
T
M
Z
R
a
P
N
J
C
B
b-20
E-20
T-20
M-20
Z-20
R-20
a-20
P-20
N-20
J-20
C-20
B-20
9
RECYCLE PULSE
TUNE POWER GROUND LINE
KEY INTERLOCK OUT
KEY INTERLOCK IN
115VAC 400 HZ
AC RETURN
ICS KEYLINE
GND
F
H
S
L
A
D
K
G
RL2609A22
RL2614A22
RL2607A22
RL2599B20
RL2606B20
RL2618C20
RL2601B22
RL2661A18N
(11) 15
(10) 15
(9) 15
(12) 15
(13) 15
(2) 17
(8) 15
GRD-20
J2
5W5P2
TRANSMITTER RF/RECEIVER RF
RL2616A
(5W5P4) 10

THIS SHEET CONTAINS
STATIONS 1 THRU 9

EL22T40

FO-7. HF radio facility wiring diagram (sheet 1 of 2).


10
9 (5W5P2)
RL2616A
5W5P4
ANT
RADIO RECEIVER-TRANSMITTER RT-698/ARC-102 REF DESIG PREFIX 5A2 (AFT SECTION)
J4
TRANSMITTER RF/RECEIVER RF
P/O MOUNTING POWER-INVERTER ASSEMBLY PP-3702/ARC-102 REF DESIG PREFIX 5A3 (AFT SECTION)
RL2655A6N
J2
CHASSIS GRD
11
GRD-20
5W4J1
P40
TRANSMITTER 4 AUDIO
AUDIO RETURN
RECEIVER AUDIO
RECEIVER AC COLD
115 V AC, 400 HZ IN AC RETURN
POWER ON
FREQ WIRE E
FREQ WIRE B
FREQ WIRE C
FREQ WIRE D
FREQ WIRE A
FREQ WIRE M
FREQ WIRE L
FREQ WIRE K
FREQ WIRE J
FREQ WIRE Q
FREQ WIRE P
FREQ WIRE O
FREQ WIRE N
FREQ WIRE I
FREQ WIRE H
FREQ WIRE G
FREQ WIRE F
LSB/USB SELECTOR
SB/AM SELECTOR
CW KEYLINE ENABLE
RF SENSITIVITY
KEY INTERLOCK IN
ICS KEYLINE
115 V AC 400 HZ
TUNE POWER GROUND LINE
KEY INTERLOCK OUT
RECYCLE PULSE
P/O MOUNTING POWER INVERTER ASSEMBLY PP 3702/ARC 102 REF DESIG PREFIX 5A3 (AFT SECTION)
12
PRIMARY POWER
+28 V DC
SPARES
INVERTER PP-3702/ARC-102 ASSEMBLY REF DESIG PREFIX 5A3A1 (AFT SECTION)
13
J3
5W2P3
POWER ON
+28 V AC
115 V AC 400 HZ RETURN
115 V AC 400 HZ
SPARE
DC GND
CASE GND
P/O AFT RADIO JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A3 (AFT SECTION)
TB117
14
16
TB119
TB118
15
(AFT SECTION) (UPPER SHELF ASSEMBLY) REF DESIG PREFIX 5W4
17
TB207
THIS SHEET CONTAINS STATIONS 10 THRU 17

NOTES

1 WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS

KY28 16 C 22 N

FACILITY OR FUNCTION / CIRCUIT / WIRE SEGMENT / WIRE SIZE / GROUND DESIGNATOR

2 THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

24 (8B)

BASE LINE / LOCATION / PIN OR TERMINAL

3 WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4 ▭ INDICATES EQUIPMENT MARKINGS.

5 INDICATES SHIELD CONNECTION

6 INDICATES DOUBLE SHIELDED COAXIAL CABLE

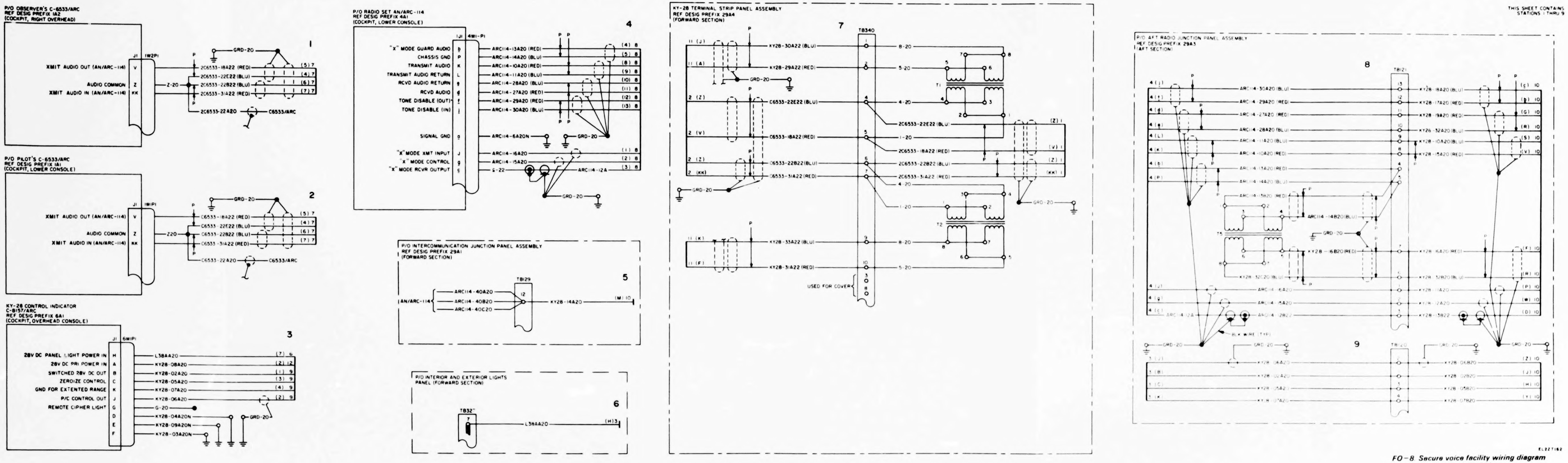
7 — — — FOR REFERENCE ONLY, REFER TO TM 55-1510-213-23

8 (0) CHASSIS GROUND CONNECTOR

EL2ZT161

FO-7. HF radio facility wiring diagram (sheet 2 of 2).

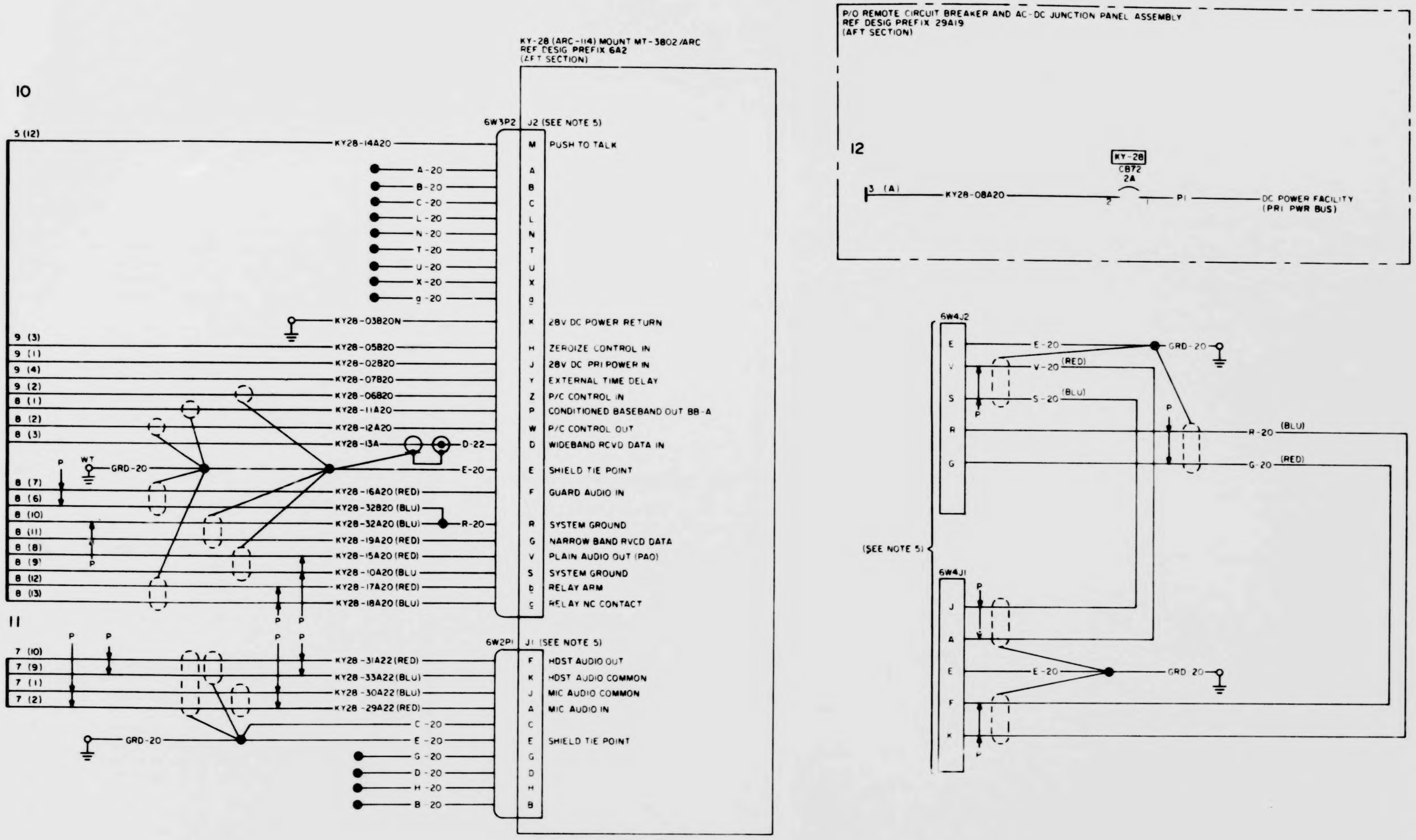
THIS SHEET CONTAINS
STATIONS 1 THRU 9


P/O OBSERVER'S C-6533/ARC
REF DESIG PREFIX 1A2
(COCKPIT, RIGHT OVERHEAD)
1
XMIT AUDIO OUT (AN/ARC-114)
AUDIO COMMON
XMIT AUDIO IN (AN/ARC-114)
GRD-20
2C6533-18A22 (RED)
2C6533-22E22 (BLU)
2C6533-22B22 (BLU)
2C6533-31A22 (RED)
2C6533-22A20
C6533/ARC
P/O PILOT'S C-6533/ARC
REF DESIG PREFIX 1A1
(COCKPIT, LOWER CONSOLE)
2
C6533-18A22 (RED)
C6533-22E22 (BLU)
C6533-22B22 (BLU)
C6533-31A22 (RED)
C6533-22A20
KY-28 CONTROL INDICATOR
C-8157/ARC
REF DESIG PREFIX 6A1
(COCKPIT, OVERHEAD CONSOLE)
3
28V DC PANEL LIGHT POWER IN
28V DC PRI POWER IN
SWITCHED 28V DC OUT
ZEROIZE CONTROL
GND FOR EXTENTED RANGE
P/C CONTROL OUT
REMOTE CIPHER LIGHT
L38A20
KY28-08A20
KY28-02A20
KY28-05A20
KY28-07A20
KY28-06A20
G-20
KY28-04A20N
KY28-09A20N
KY28-03A20N
P/O RADIO SET AN/ARC-114
REF DESIG PREFIX 4A1
(COCKPIT, LOWER CONSOLE)
4
"X" MODE GUARD AUDIO
CHASSIS GND
TRANSMIT AUDIO
TRANSMIT AUDIO RETURN
RCVD AUDIO RETURN
RCVD AUDIO
TONE DISABLE (OUT)
TONE DISABLE (IN)
SIGNAL GND
"X" MODE XMT INPUT
"X" MODE CONTROL
"X" MODE RCVR OUTPUT
ARC114-13A20 (RED)
ARC114-14A20 (BLU)
ARC114-10A20 (RED)
ARC114-11A20 (BLU)
ARC114-28A20 (BLU)
ARC114-27A20 (RED)
ARC114-29A20 (RED)
ARC114-30A20 (BLU)
ARC114-6A20N
ARC114-16A20
ARC114-15A20
ARC114-12A
P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A1
(FORWARD SECTION)
5
AN/ARC-114
ARC114-40A20
ARC114-40B20
ARC114-40C20
TB129
KY28-14A20
P/O INTERIOR AND EXTERIOR LIGHTS
PANEL (FORWARD SECTION)
6
TB32
L38A20
KY-28 TERMINAL STRIP PANEL ASSEMBLY
REF DESIG PREFIX 29A4
(FORWARD SECTION)
7
TB340
KY28-30A22 (BLU)
KY28-29A22 (RED)
C6533-22E22 (BLU)
C6533-18A22 (RED)
C6533-22B22 (BLU)
C6533-31A22 (RED)
2C6533-22E22 (BLU)
2C6533-18A22 (RED)
2C6533-22B22 (BLU)
2C6533-31A22 (RED)
KY28-33A22 (BLU)
KY28-31A22 (RED)
T1
T2
USED FOR COVER
P/O AFT RADIO JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A3
(AFT SECTION)
8
TB121
ARC114-30A20 (BLU)
ARC114-29A20 (RED)
ARC114-27A20 (RED)
ARC114-28A20 (BLU)
ARC114-11A20 (BLU)
ARC114-10A20 (RED)
ARC114-13A20 (RED)
ARC114-14A20 (BLU)
ARC114-14B20 (BLU)
KY28-16B20 (RED)
KY28-18A20 (BLU)
KY28-17A20 (RED)
KY28-19A20 (RED)
KY28-32A20 (RED)
KY28-10A20 (BLU)
KY28-15A20 (RED)
KY28-16A20 (RED)
KY28-31A20 (BLU)
BLK WIRE (TYP)
9
TB120
GRD-20

EL2271162

FO-8. Secure voice facility wiring diagram (sheet 1 of 2)

THIS SHEET CONTAINS
STATIONS 10 THRU 12


10
5 (12)
KY28-14A20
6W3P2
J2 (SEE NOTE 5)
KY-28 (ARC-114) MOUNT MT-3802/ARC
REF DESIG PREFIX 6A2
(AFT SECTION)
M PUSH TO TALK
A-20 A
B-20 B
C-20 C
L-20 L
N-20 N
T-20 T
U-20 U
X-20 X
g-20 g
KY28-03B20N
K 28V DC POWER RETURN
9 (3)
9 (1)
9 (4)
9 (2)
8 (1)
8 (2)
8 (3)
KY28-05B20
H ZEROIZE CONTROL IN
KY28-02B20
J 28V DC PRI POWER IN
KY28-07B20
Y EXTERNAL TIME DELAY
KY28-06B20
Z P/C CONTROL IN
KY28-11A20
P CONDITIONED BASEBAND OUT BB-A
KY28-12A20
W P/C CONTROL OUT
KY28-13A
D-22
D WIDEBAND RCVD DATA IN
P
WT
GRD-20
E-20
E SHIELD TIE POINT
8 (7)
8 (6)
8 (10)
8 (11)
8 (8)
8 (9)
8 (12)
8 (13)
KY28-16A20 (RED)
F GUARD AUDIO IN
KY28-32B20 (BLU)
KY28-32A20 (BLU)
R-20
R SYSTEM GROUND
KY28-19A20 (RED)
G NARROW BAND RVCD DATA
KY28-15A20 (RED)
V PLAIN AUDIO OUT (PAO)
KY28-10A20 (BLU
S SYSTEM GROUND
KY28-17A20 (RED)
b RELAY ARM
KY28-18A20 (BLU)
c RELAY NC CONTACT
P
11
7 (10)
7 (9)
7 (1)
7 (2)
6W2P1
J1 (SEE NOTE 5)
KY28-31A22 (RED)
F HDST AUDIO OUT
KY28-33A22 (BLU)
K HDST AUDIO COMMON
KY28-30A22 (BLU)
J MIC AUDIO COMMON
KY28-29A22 (RED)
A MIC AUDIO IN
C-20 C
GRD-20
E-20
E SHIELD TIE POINT
G-20 G
D-20 D
H-20 H
B-20 B
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
12
3 (A)
KY28-08A20
KY-28
CB72
2A
2
1
P1
DC POWER FACILITY
(PRI PWR BUS)
6W4J2
E
V
S
R
G
E-20
GRD-20
V-20 (RED)
S-20 (BLU)
R-20 (BLU)
G-20 (RED)
(SEE NOTE 5)
6W4J1
J
A
E
F
K
E-20
GRD 20

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

KY28 16 C 22 N
FACILITY OR FUNCTION
CIRCUIT
WIRE SEGMENT
WIRE SIZE
GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

24 (8B)
BASE LINE
LOCATION
PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4. ▭ INDICATES EQUIPMENT MARKINGS.

5. CONNECT PLUS 6W2P1 TO JACK 6W4J1 AND PLUG 6W3P2 TO JACK 6W4J2

6. INDICATES SINGLE WIRE TO COAXIAL CABLE SPLICE.

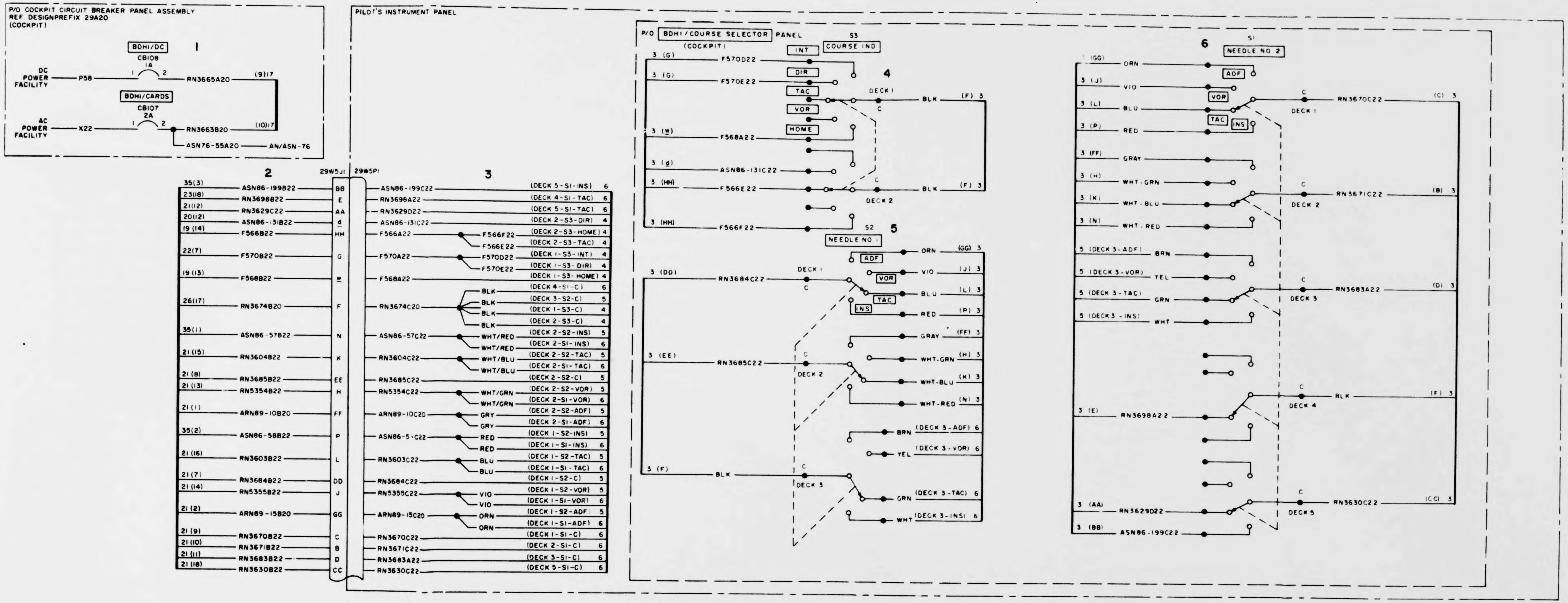
7. INDICATES SHIELD CONNECTION.

8. — — — FOR REFERENCE ONLY.

EL2ZT163

FO-8. *Secure voice facility wiring diagram (sheet 2 of 2).*

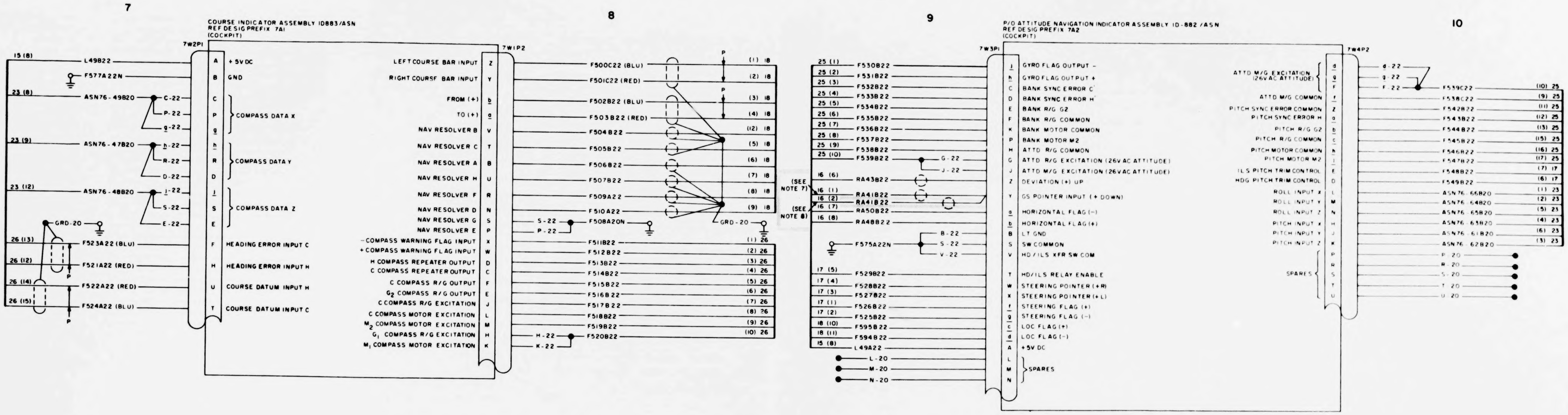
THIS SHEET CONTAINS STATIONS 1 THRU 6


P/O COCKPIT CIRCUIT BREAKER PANEL ASSEMBLY
REF DESIGNPREFIX 29A20
(COCKPIT)
1
BDHI/DC
CB108
1A
DC POWER FACILITY
P58
1
2
RN3665A20
(9)17
BDHI/CARDS
CB107
2A
AC POWER FACILITY
X22
1
2
RN3663B20
(10)17
ASN76-55A20
AN/ASN-76
PILOT'S INSTRUMENT PANEL
2
29W5J1
29W5P1
3
35(3) ASN86-199B22 BB ASN86-199C22 (DECK 5-S1-INS) 6
23(18) RN3698B22 E RN3698A22 (DECK 4-S1-TAC) 6
21(12) RN3629C22 AA RN3629D22 (DECK 5-S1-TAC) 6
20(12) ASN86-131B22 d ASN86-131C22 (DECK 2-S3-DIR) 4
19 (14) F566B22 HH F566A22 F566F22 (DECK 2-S3-HOME) 4
F566E22 (DECK 2-S3-TAC) 4
22(7) F570B22 G F570A22 F570D22 (DECK 1-S3-INT) 4
F570E22 (DECK 1-S3-DIR) 4
19 (13) F568B22 w F568A22 (DECK 1-S3-HOME) 4
26(17) RN3674B20 F RN3674C20 BLK (DECK 4-S1-C) 6
BLK (DECK 3-S2-C) 5
BLK (DECK 1-S3-C) 4
BLK (DECK 2-S3-C) 4
35(1) ASN86-57B22 N ASN86-57C22 WHT/RED (DECK 2-S2-INS) 5
WHT/RED (DECK 2-S1-INS) 6
21 (15) RN3604B22 K RN3604C22 WHT/BLU (DECK 2-S2-TAC) 5
WHT/BLU (DECK 2-S1-TAC) 6
21 (8) RN3685B22 EE RN3685C22 (DECK 2-S2-C) 5
21 (13) RN5354B22 H RN5354C22 WHT/GRN (DECK 2-S2-VOR) 5
WHT/GRN (DECK 2-S1-VOR) 6
21 (1) ARN89-10B20 FF ARN89-10C20 GRY (DECK 2-S2-ADF) 5
GRY (DECK 2-S1-ADF) 6
35(2) ASN86-58B22 P ASN86-5-C22 RED (DECK 1-S2-INS) 5
RED (DECK 1-S1-INS) 6
21 (16) RN3603B22 L RN3603C22 BLU (DECK 1-S2-TAC) 5
BLU (DECK 1-S1-TAC) 6
21 (7) RN3684B22 DD RN3684C22 (DECK 1-S2-C) 5
21 (14) RN5355B22 J RN5355C22 VIO (DECK 1-S2-VOR) 5
VIO (DECK 1-S1-VOR) 6
21 (2) ARN89-15B20 GG ARN89-15C20 ORN (DECK 1-S2-ADF) 5
ORN (DECK 1-S1-ADF) 6
21 (9) RN3670B22 C RN3670C22 (DECK 1-S1-C) 6
21 (10) RN3671B22 B RN3671C22 (DECK 2-S1-C) 6
21 (11) RN3683B22 D RN3683A22 (DECK 3-S1-C) 6
21 (18) RN3630B22 CC RN3630C22 (DECK 5-S1-C) 6
P/O BDHI/COURSE SELECTOR PANEL
(COCKPIT)
S3
COURSE IND
4
INT
DIR
TAC
VOR
HOME
3 (G) F570D22
3 (G) F570E22
3 (w) F568A22
3 (d) ASN86-131C22
3 (HH) F566E22
3 (HH) F566F22
DECK 1
C
BLK (F) 3
C
DECK 2
BLK (F) 3
S2
5
NEEDLE NO 1
ADF
VOR
TAC
INS
3 (DD) RN3684C22
DECK 1
C
ORN (GG) 3
VIO (J) 3
BLU (L) 3
RED (P) 3
GRAY (FF) 3
3 (EE) RN3685C22
C
DECK 2
WHT-GRN (H) 3
WHT-BLU (K) 3
WHT-RED (N) 3
BRN (DECK 3-ADF) 6
YEL (DECK 3-VOR) 6
3 (F) BLK
C
DECK 3
GRN (DECK 3-TAC) 6
WHT (DECK 3-INS) 6
6
S1
NEEDLE NO 2
ADF
VOR
TAC
INS
3 (GG) ORN
3 (J) VIO
3 (L) BLU
3 (P) RED
3 (FF) GRAY
3 (H) WHT-GRN
3 (K) WHT-BLU
3 (N) WHT-RED
5 (DECK 3-ADF) BRN
5 (DECK 3-VOR) YEL
5 (DECK 3-TAC) GRN
5 (DECK 3-INS) WHT
3 (E) RN3698A22
3 (AA) RN3629D22
3 (BB) ASN86-199C22
C
DECK 1
RN3670C22 (C) 3
C
DECK 2
RN3671C22 (B) 3
C
DECK 3
RN3683A22 (D) 3
C
DECK 4
BLK (F) 3
C
DECK 5
RN3630C22 (CC) 3

EL2ZT164

FO-9. Navigational display facility wiring diagram (sheet 1 of 8).

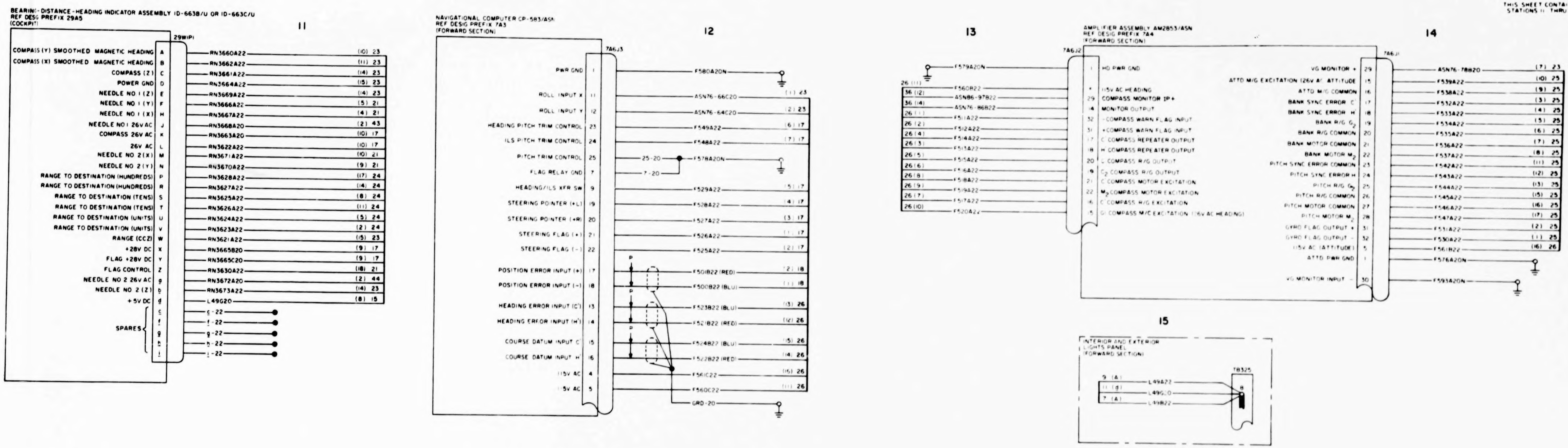
THIS SHEET CONTAINS
STATIONS 7 THRU 10


7
8
9
10
COURSE INDICATOR ASSEMBLY ID883/ASN
REF DESIG PREFIX 7A1
(COCKPIT)
7W2P1
7W1P2
15 (8) L49B22 A +5V DC
F577A22N B GND
23 (8) ASN76-49B20 C-22 P-22 g-22
C P g COMPASS DATA X
23 (9) ASN76-47B20 h-22 R-22 D-22
h R D COMPASS DATA Y
23 (12) ASN76-48B20 j-22 S-22 E-22
j S E COMPASS DATA Z
GRD-20
26 (13) F523A22 (BLU) F HEADING ERROR INPUT C
26 (12) F521A22 (RED) H HEADING ERROR INPUT H
26 (14) F522A22 (RED) U COURSE DATUM INPUT H
26 (15) F524A22 (BLU) T COURSE DATUM INPUT C
P
LEFT COURSE BAR INPUT Z F500C22 (BLU) (1) 18
RIGHT COURSF BAR INPUT Y F501C22 (RED) (2) 18
FROM (+) b F502B22 (BLU) (3) 18
TO (+) a F503B22 (RED) (4) 18
NAV RESOLVER B V F504B22 (12) 18
NAV RESOLVER C T F505B22 (5) 18
NAV RESOLVER A B F506B22 (6) 18
NAV RESOLVER H U F507B22 (7) 18
NAV RESOLVER F R F509A22 (8) 18
NAV RESOLVER D N F510A22 (9) 18
NAV RESOLVER G S S-22 F508A20N
NAV RESOLVER E P P-22
GRD-20
-COMPASS WARNING FLAG INPUT X F511B22 (1) 26
+COMPASS WARNING FLAG INPUT W F512B22 (2) 26
H COMPASS REPEATER OUTPUT D F513B22 (3) 26
C COMPASS REPEATER OUTPUT C F514B22 (4) 26
C COMPASS R/G OUTPUT F F515B22 (5) 26
G2 COMPASS R/G OUTPUT E F516B22 (6) 26
C COMPASS R/G EXCITATION J F517B22 (7) 26
C COMPASS MOTOR EXCITATION L F518B22 (8) 26
M2 COMPASS MOTOR EXCITATION M F519B22 (9) 26
G1 COMPASS R/G EXCITATION H H-22 F520B22 (10) 26
M1 COMPASS MOTOR EXCITATION K K-22
P/O ATTITUDE NAVIGATION INDICATOR ASSEMBLY ID-882/ASN
REF DESIG PREFIX 7A2
(COCKPIT)
7W3P1
7W4P2
25 (1) F530B22 j GYRO FLAG OUTPUT -
25 (2) F531B22 h GYRO FLAG OUTPUT +
25 (3) F532B22 C BANK SYNC ERROR C'
25 (4) F533B22 D BANK SYNC ERROR H'
25 (5) F534B22 E BANK R/G G2
25 (6) F535B22 F BANK R/G COMMON
25 (7) F536B22 K BANK MOTOR COMMON
25 (8) F537B22 P BANK MOTOR M2
25 (9) F538B22 H ATTD R/G COMMON
25 (10) F539B22 G-22 G ATTD R/G EXCITATION (26V AC ATTITUDE)
J-22 J ATTD M/G EXCITATION (26V AC ATTITUDE)
16 (6) RA43B22 Z DEVIATION (+) UP
(SEE NOTE 7) 16 (1) RA41B22 Y GS POINTER INPUT (+ DOWN)
16 (2) RA41B22
(SEE NOTE 8) 16 (7) RA50B22 a HORIZONTAL FLAG (-)
16 (8) RA48B22 b HORIZONTAL FLAG (+)
F575A22N B-22 B LT GND
S-22 S SW COMMON
V-22 V HD/ILS XFR SW COM
17 (5) F529B22 T HD/ILS RELAY ENABLE
17 (4) F528B22 W STEERING POINTER (+R)
17 (3) F527B22 X STEERING POINTER (+L)
17 (1) F526B22 f STEERING FLAG (+)
17 (2) F525B22 g STEERING FLAG (-)
18 (10) F595B22 c LOC FLAG (+)
18 (11) F594B22 d LOC FLAG (-)
15 (8) L49A22 A +5V DC
L-20 L
M-20 M SPARES
N-20 N
ATTD M/G EXCITATION (26V AC ATTITUDE) d g F d-22 g-22 F-22 F539C22 (10) 25
ATTD M/G COMMON f F538C22 (9) 25
PITCH SYNC ERROR COMMON Z F542B22 (11) 25
PITCH SYNC ERROR H a F543B22 (12) 25
PITCH R/G G2 b F544B22 (13) 25
PITCH R/G COMMON c F545B22 (15) 25
PITCH MOTOR COMMON h F546B22 (16) 25
PITCH MOTOR M2 i F547B22 (17) 25
ILS PITCH TRIM CONTROL E F548B22 (7) 17
HDG PITCH TRIM CONTROL D F549B22 (6) 17
ROLL INPUT X L ASN76-66B20 (1) 23
ROLL INPUT Y M ASN76-64B20 (2) 23
ROLL INPUT Z N ASN76-65B20 (5) 23
PITCH INPUT X H ASN76-63B20 (4) 23
PITCH INPUT Y J ASN76-61B20 (6) 23
PITCH INPUT Z K ASN76-62B20 (3) 23
SPARES P R S T U P-20 R-20 S-20 T-20 U-20

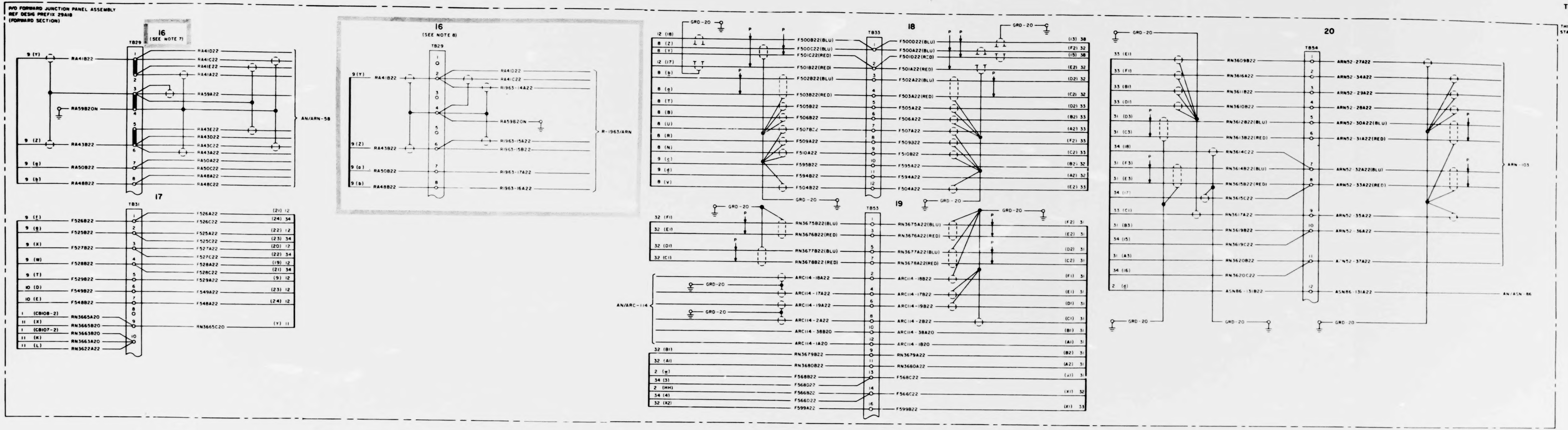
EL2ZT165

FO-9. Navigational display facility wiring diagram (sheet 2 of 8).

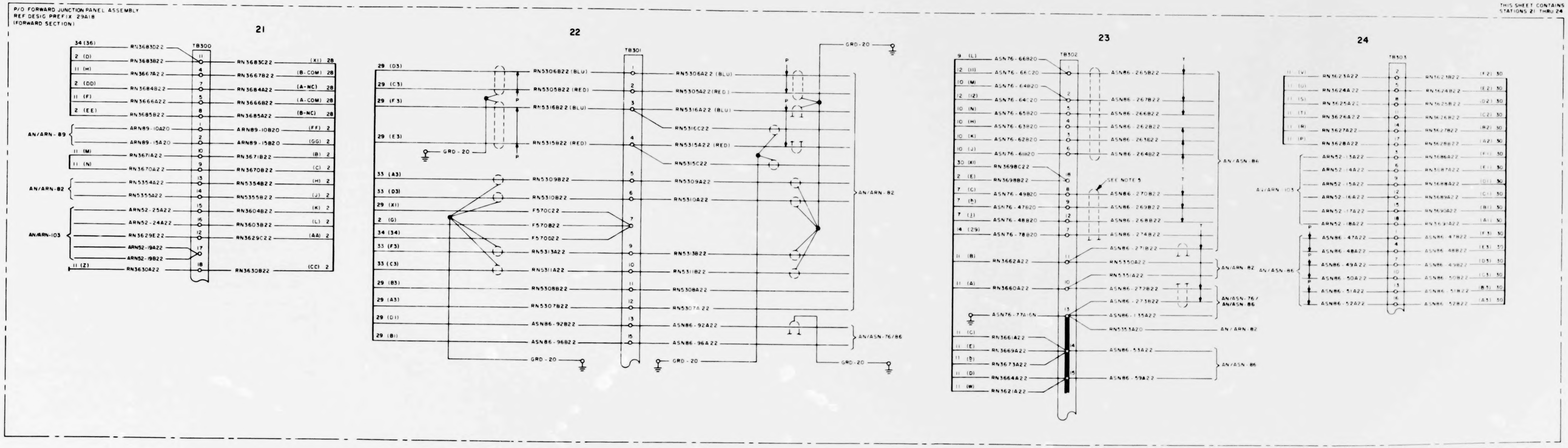
THIS SHEET CONTAINS
STATIONS 11 THRU 15


11
BEARING-DISTANCE-HEADING INDICATOR ASSEMBLY ID-663B/U OR ID-663C/U
REF DESG PREFIX 29A5
(COCKPIT)
29W1P1
COMPASS (Y) SMOOTHED MAGNETIC HEADING A RN3660A22 (10) 23
COMPASS (X) SMOOTHED MAGNETIC HEADING B RN3662A22 (11) 23
COMPASS (Z) C RN3661A22 (14) 23
POWER GND D RN3664A22 (15) 23
NEEDLE NO 1 (Z) E RN3669A22 (14) 23
NEEDLE NO 1 (Y) F RN3666A22 (5) 21
NEEDLE NO 1 (X) H RN3667A22 (4) 21
NEEDLE NO 1 26V AC J RN3668A20 (2) 43
COMPASS 26V AC K RN3663A20 (10) 17
26V AC L RN3622A22 (10) 17
NEEDLE NO 2 (X) M RN3671A22 (10) 21
NEEDLE NO 2 (Y) N RN3670A22 (9) 21
RANGE TO DESTINATION (HUNDREDS) P RN3628A22 (17) 24
RANGE TO DESTINATION (HUNDREDS) R RN3627A22 (14) 24
RANGE TO DESTINATION (TENS) S RN3625A22 (8) 24
RANGE TO DESTINATION (TENS) T RN3626A22 (11) 24
RANGE TO DESTINATION (UNITS) U RN3624A22 (5) 24
RANGE TO DESTINATION (UNITS) V RN3623A22 (2) 24
RANGE (CCZ) W RN3621A22 (15) 23
+28V DC X RN3665B20 (9) 17
FLAG +28V DC Y RN3665C20 (9) 17
FLAG CONTROL Z RN3630A22 (18) 21
NEEDLE NO 2 26V AC a RN3672A20 (2) 44
NEEDLE NO 2 (Z) b RN3673A22 (14) 23
+5V DC d L49G20 (8) 15
SPARES c c-22
f f-22
g g-22
h h-22
i i-22
12
NAVIGATIONAL COMPUTER CP-583/ASN
REF DESIG PREFIX 7A3
(FORWARD SECTION)
7A6J3
PWR GND 1 F580A20N
ROLL INPUT X 11 ASN76-66C20 (1) 23
ROLL INPUT Y 12 ASN76-64C20 (2) 23
HEADING PITCH TRIM CONTROL 23 F549A22 (6) 17
ILS PITCH TRIM CONTROL 24 F548A22 (7) 17
PITCH TRIM CONTROL 25 25-20 F578A20N
FLAG RELAY GND 7 7-20
HEADING/ILS XFR SW 9 F529A22 (5) 17
STEERING POINTER (+L) 19 F528A22 (4) 17
STEERING POINTER (+R) 20 F527A22 (3) 17
STEERING FLAG (+) 21 F526A22 (1) 17
STEERING FLAG (-) 22 F525A22 (2) 17
P
POSITION ERROR INPUT (+) 17 F501B22 (RED) (2) 18
POSITION ERROR INPUT (-) 18 F500B22 (BLU) (1) 18
P
HEADING ERROR INPUT (C') 13 F523B22 (BLU) (13) 26
HEADING ERROR INPUT (H') 14 F521B22 (RED) (12) 26
P
COURSE DATUM INPUT C' 15 F524B22 (BLU) (5) 26
COURSE DATUM INPUT H' 16 F522B22 (RED) (4) 26
115V AC 4 F561C22 (15) 26
115V AC 5 F560C22 (11) 26
GRD-20
13
F579A20N
26 (11) F560B22
36 (12) ASN86-97B22
36 (14) ASN76-86B22
26 (1) F511A22
26 (2) F512A22
26 (4) F514A22
26 (3) F513A22
26 (5) F515A22
26 (6) F516A22
26 (8) F518A22
26 (9) F519A22
26 (7) F517A22
26 (10) F520A22
AMPLIFIER ASSEMBLY AM2853/ASN
REF DESIG PREFIX 7A4
(FORWARD SECTION)
7A6J2
1 HD PWR GND
4 115V AC HEADING
29 COMPASS MONITOR IP+
14 MONITOR OUTPUT
32 -COMPASS WARN FLAG INPUT
31 +COMPASS WARN FLAG INPUT
17 C' COMPASS REPEATER OUTPUT
18 H' COMPASS REPEATER OUTPUT
20 C COMPASS R/G OUTPUT
19 G_2 COMPASS R/G OUTPUT
21 C COMPASS MOTOR EXCITATION
22 M_2 COMPASS MOTOR EXCITATION
16 C COMPASS R/G EXCITATION
15 G1 COMPASS M/C EXCITATION (26V AC HEADING)
14
7A6J1
VG MONITOR + 29 ASN76-78B20 (7) 23
ATTD M/G EXCITATION (26V AC ATTITUDE 15 F539A22 (10) 25
ATTD M/G COMMON 16 F538A22 (9) 25
BANK SYNC ERROR C' 17 F532A22 (3) 25
BANK SYNC ERROR H' 18 F533A22 (4) 25
BANK R/G G_2 19 F534A22 (5) 25
BANK R/G COMMON 20 F535A22 (6) 25
BANK MOTOR COMMON 21 F536A22 (7) 25
BANK MOTOR M_2 22 F537A22 (8) 25
PITCH SYNC ERROR COMMON 23 F542A22 (11) 25
PITCH SYNC ERROR H 24 F543A22 (12) 25
PITCH R/G G_2 25 F544A22 (13) 25
PITCH R/G COMMON 26 F545A22 (15) 25
PITCH MOTOR COMMON 27 F546A22 (16) 25
PITCH MOTOR M_2 28 F547A22 (17) 25
GYRO FLAG OUTPUT + 31 F531A22 (2) 25
GYRO FLAG OUTPUT - 32 F530A22 (1) 25
115V AC (ATTITUDE) 5 F561B22 (16) 26
ATTD PWR GND 1 F576A20N
VG MONITOR INPUT - 30 F593A20N
15
INTERIOR AND EXTERIOR
LIGHTS PANEL
(FORWARD SECTION)
TB325
9 (A) L49A22
11 (d) L49G20
7 (A) L49B22
8

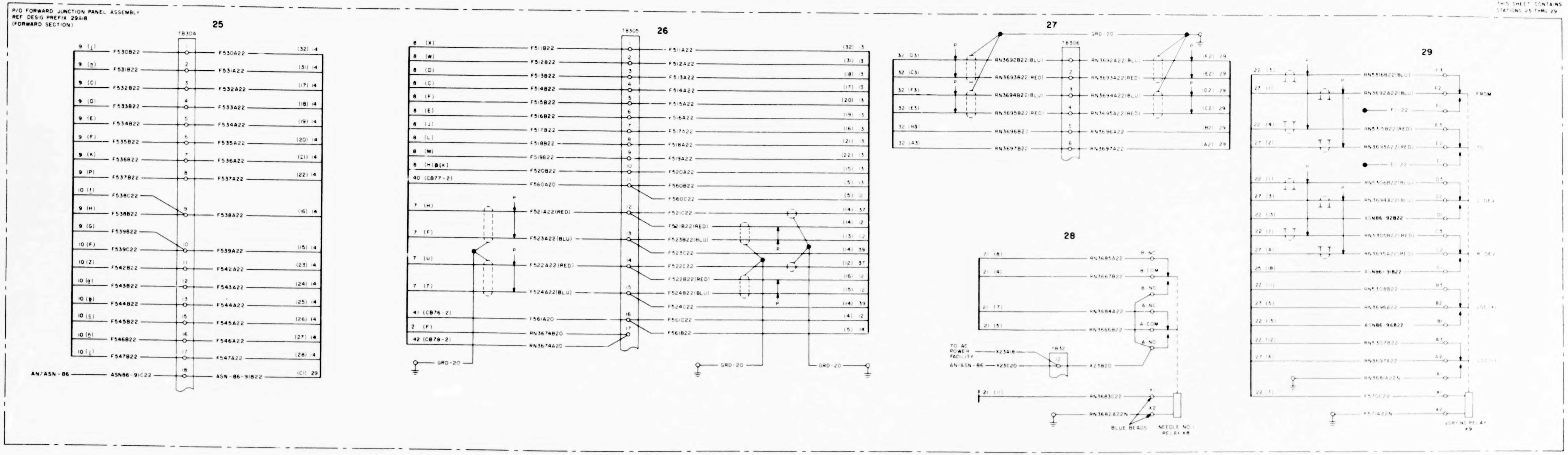
FO-9. Navigational display facility wiring diagram (sheet 3 of 8).


P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
16
(SEE NOTE 7)
TB29
AN/ARN-58
17
TB31
16
(SEE NOTE 8)
TB29
R-1963/ARN
18
TB33
GRD-20
19
TB53
AN/ARC-114
20
TB54
ARN-103
AN/ASN-86
THIS SHEET CONTAINS
STATIONS 16 THRU 20
EL2ZT167

FO-9 Navigational display facility wiring diagram (sheet 4 of 8)

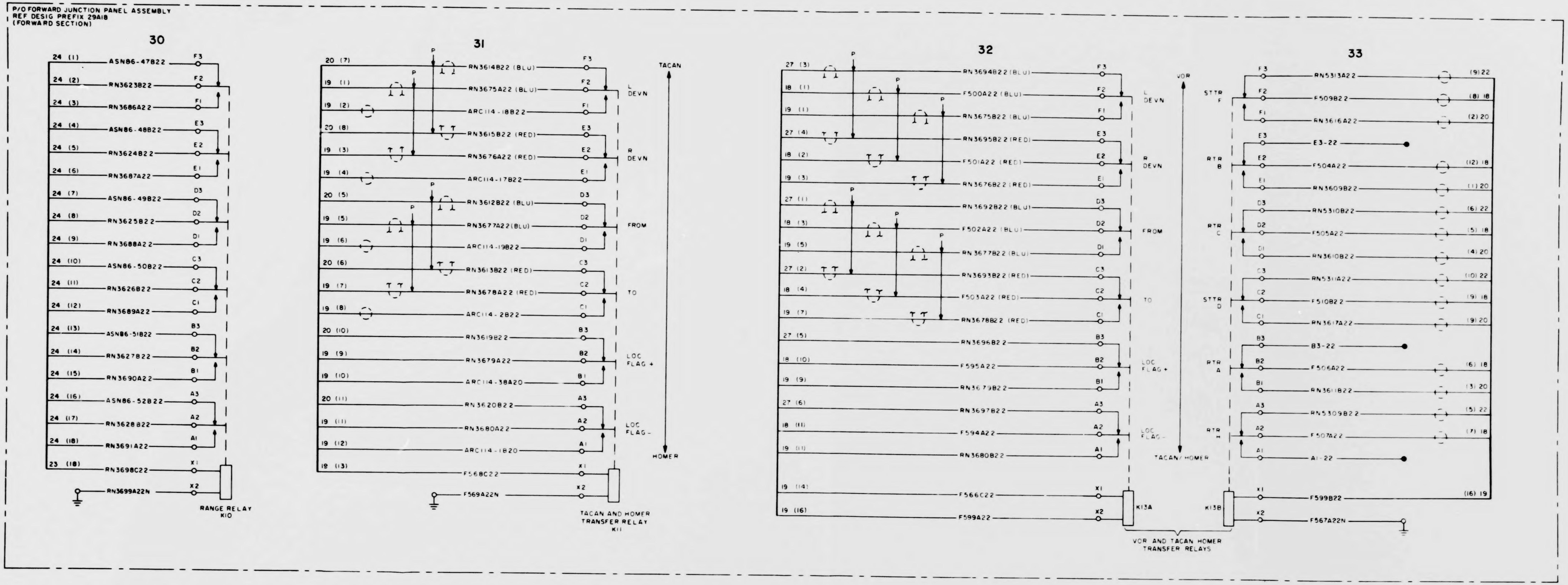

P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
THIS SHEET CONTAINS
STATIONS 21 THRU 24
21
22
23
24
TB300
TB301
TB302
TB303
AN/ARN-89
AN/ARN-82
AN/ARN-103
AN/ASN-86
AN/ASN-76/86
AN/ASN-76/
AN/ASN-86
SEE NOTE 5
GRD-20
RN5306B22 (BLU)
RN5305B22 (RED)
RN5316B22 (BLU)
RN5315B22 (RED)
RN5306A22 (BLU)
RN5305A22 (RED)
RN5316A22 (BLU)
RN5315A22 (RED)
RN5316C22
RN5315C22
F570C22
F570B22
F570D22
ASN86-92B22
ASN86-96B22
ASN86-92A22
ASN86-96A22

FO-9. Navigational display facility wiring diagram (sheet 5 of 8).


THIS SHEET CONTAINS STATIONS 25 THRU 29
P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
25
TB304
9 (j) F530B22 1 F530A22 (32) 14
9 (h) F531B22 2 F531A22 (31) 14
9 (C) F532B22 3 F532A22 (17) 14
9 (D) F533B22 4 F533A22 (18) 14
9 (E) F534B22 5 F534A22 (19) 14
9 (F) F535B22 6 F535A22 (20) 14
9 (K) F536B22 7 F536A22 (21) 14
9 (P) F537B22 8 F537A22 (22) 14
10 (f) F538C22
9 (H) F538B22 9 F538A22 (16) 14
9 (G) F539B22
10 (F) F539C22 10 F539A22 (15) 14
10 (Z) F542B22 11 F542A22 (23) 14
10 (a) F543B22 12 F543A22 (24) 14
10 (b) F544B22 13 F544A22 (25) 14
10 (c) F545B22 15 F545A22 (26) 14
10 (h) F546B22 16 F546A22 (27) 14
10 (j) F547B22 17 F547A22 (28) 14
AN/ASN-86 ASN86-91C22 18 ASN-86-91B22 (C1) 29
26
TB305
8 (X) F511B22 1 F511A22 (32) 13
8 (W) F512B22 2 F512A22 (31) 13
8 (D) F513B22 3 F513A22 (18) 13
8 (C) F514B22 4 F514A22 (17) 13
8 (F) F515B22 5 F515A22 (20) 13
8 (E) F516B22 6 F516A22 (19) 13
8 (J) F517B22 7 F517A22 (16) 13
8 (L) F518B22 8 F518A22 (21) 13
8 (M) F519B22 9 F519A22 (22) 13
8 (H) B (K) F520B22 10 F520A22 (15) 13
40 (CB77-2) F560A20 11 F560B22 (5) 13
F560C22 (5) 12
7 (H) F521A22(RED) 12 F521C22 (14) 37
F521B22(RED) (14) 12
7 (F) F523A22(BLU) 13 F523B22(BLU) (13) 12
F523C22 (14) 39
7 (U) F522A22(RED) 14 F522C22 (12) 37
F522B22(RED) (16) 12
7 (T) F524A22(BLU) 15 F524B22(BLU) (15) 12
F524C22 (14) 39
41 (CB76-2) F561A20 16 F561C22 (4) 12
2 (F) RN3674B20 17 F561B22 (5) 14
42 (CB78-2) RN3674A20
P
GRD-20
27
TB306
GRD-20
32 (D3) RN3692B22(BLU) 1 RN3692A22(BLU) (F2) 29
32 (C3) RN3693B22(RED) 2 RN3693A22(RED) (E2) 29
32 (F3) RN3694B22(BLU) 3 RN3694A22(BLU) (D2) 29
32 (E3) RN3695B22(RED) 4 RN3695A22(RED) (C2) 29
32 (B3) RN3696B22 5 RN3696A22 (B2) 29
32 (A3) RN3697B22 6 RN3697A22 (A2) 29
P
28
21 (8) RN3685A22 B-NC
21 (4) RN3667B22 B-COM
B-NO
21 (7) RN3684A22 A-NC
21 (5) RN3666B22 A-COM
A-NO
TO AC POWER FACILITY X23A18
AN/ASN-86 X23C20
TB32
12
X23B20
21 (11) RN3683C22 X1
RN3682A22N X2
BLUE BEADS
NEEDLE NO 1 RELAY K8
29
22 (3) RN5316B22(BLU) F3
27 (1) RN3692A22(BLU) F2
F1-22 F1
FROM
22 (4) RN5315B22(RED) E3
27 (2) RN3693A22(RED) E2
E1-22 E1
TO
22 (1) RN5306B22(BLU) D3
27 (3) RN3694A22(BLU) D2
22 (13) ASN86-92B22 D1
L DEV
22 (2) RN5305B22(RED) C3
27 (4) RN3695A22(RED) C2
25 (18) ASN86-91B22 C1
R DEV
22 (11) RN5308B22 B3
27 (5) RN3696A22 B2
22 (15) ASN86-96B22 B1
LOC(+)
22 (12) RN5307B22 A3
27 (6) RN3697A22 A2
RN3681A22N A1
LOC(-)
22 (7) F570C22 X1
F571A22N X2
VOR/INS RELAY K9
P

EL227169

FO-9 Navigational display facility wiring diagram (sheet 6 of 8)

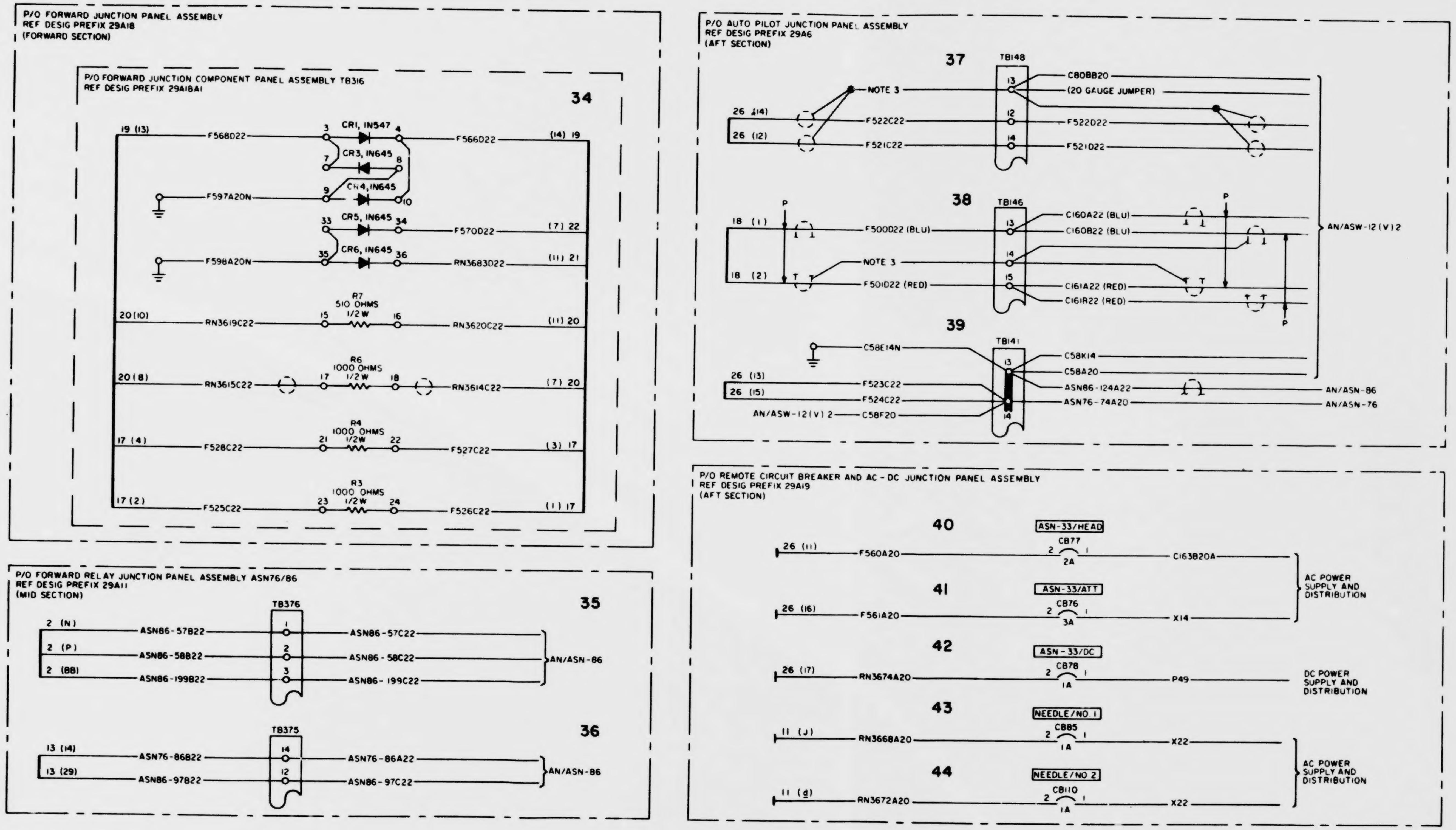

P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
30
24 (1) ASN86-47B22 F3
24 (2) RN3623B22 F2
24 (3) RN3686A22 F1
24 (4) ASN86-48B22 E3
24 (5) RN3624B22 E2
24 (6) RN3687A22 E1
24 (7) ASN86-49B22 D3
24 (8) RN3625B22 D2
24 (9) RN3688A22 D1
24 (10) ASN86-50B22 C3
24 (11) RN3626B22 C2
24 (12) RN3689A22 C1
24 (13) ASN86-51B22 B3
24 (14) RN3627B22 B2
24 (15) RN3690A22 B1
24 (16) ASN86-52B22 A3
24 (17) RN3628B22 A2
24 (18) RN3691A22 A1
23 (18) RN3698C22 X1
RN3699A22N X2
RANGE RELAY
K10
31
P
20 (7) RN3614B22 (BLU) F3
19 (1) RN3675A22 (BLU) F2
19 (2) ARC114-18B22 F1
20 (8) RN3615B22 (RED) E3
19 (3) RN3676A22 (RED) E2
19 (4) ARC114-17B22 E1
20 (5) RN3612B22 (BLU) D3
19 (5) RN3677A22 (BLU) D2
19 (6) ARC114-19B22 D1
20 (6) RN3613B22 (RED) C3
19 (7) RN3678A22 (RED) C2
19 (8) ARC114-2B22 C1
20 (10) RN3619B22 B3
19 (9) RN3679A22 B2
19 (10) ARC114-38A20 B1
20 (11) RN3620B22 A3
19 (11) RN3680A22 A2
19 (12) ARC114-1B20 A1
19 (13) F568C22 X1
F569A22N X2
L DEVN
R DEVN
FROM
TO
LOC FLAG +
LOC FLAG -
TACAN
HOMER
TACAN AND HOMER
TRANSFER RELAY
K11
32
27 (3) RN3694B22 (BLU) F3
18 (1) F500A22 (BLU) F2
19 (1) RN3675B22 (BLU) F1
27 (4) RN3695B22 (RED) E3
18 (2) F501A22 (RED) E2
19 (3) RN3676B22 (RED) E1
27 (1) RN3692B22 (BLU) D3
18 (3) F502A22 (BLU) D2
19 (5) RN3677B22 (BLU) D1
27 (2) RN3693B22 (RED) C3
18 (4) F503A22 (RED) C2
19 (7) RN3678B22 (RED) C1
27 (5) RN3696B22 B3
18 (10) F595A22 B2
19 (9) RN3679B22 B1
27 (6) RN3697B22 A3
18 (11) F594A22 A2
19 (11) RN3680B22 A1
19 (14) F566C22 X1
19 (16) F599A22 X2
K13A
L DEVN
R DEVN
FROM
TO
LOC FLAG +
LOC FLAG -
VOR
TACAN/HOMER
K13B
VOR AND TACAN HOMER
TRANSFER RELAYS
33
STTR F
RTR B
RTR C
STTR D
RTR A
RTR H
F3 RN5313A22 (9) 22
F2 F509B22 (8) 18
F1 RN3616A22 (2) 20
E3 E3-22
E2 F504A22 (12) 18
E1 RN3609B22 (1) 20
D3 RN5310B22 (6) 22
D2 F505A22 (5) 18
D1 RN3610B22 (4) 20
C3 RN5311A22 (10) 22
C2 F510B22 (9) 18
C1 RN3617A22 (9) 20
B3 B3-22
B2 F506A22 (6) 18
B1 RN3611B22 (3) 20
A3 RN5309B22 (5) 22
A2 F507A22 (7) 18
A1 A1-22
X1 F599B22 (16) 19
X2 F567A22N

THIS SHEET CONTAINS
STATIONS 30 THRU 34

EL2ZT170

FO-9. *Navigational display facility wiring diagram (sheet 7 of 8).*

THIS SHEET CONTAINS
STATIONS 34 THRU 44


P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
P/O FORWARD JUNCTION COMPONENT PANEL ASSEMBLY TB316
REF DESIG PREFIX 29A18A1
34
19 (13)
F568D22
3
CR1, IN547
4
F566D22
(14) 19
7
CR3, IN645
8
F597A20N
9
CR4, IN645
10
33
CR5, IN645
34
F570D22
(7) 22
F598A20N
35
CR6, IN645
36
RN3683D22
(11) 21
20 (10)
RN3619C22
R7
510 OHMS
1/2 W
15
16
RN3620C22
(11) 20
20 (8)
RN3615C22
R6
1000 OHMS
1/2 W
17
18
RN3614C22
(7) 20
17 (4)
F528C22
R4
1000 OHMS
1/2W
21
22
F527C22
(3) 17
17 (2)
F525C22
R3
1000 OHMS
1/2 W
23
24
F526C22
(1) 17
P/O FORWARD RELAY JUNCTION PANEL ASSEMBLY ASN76/86
REF DESIG PREFIX 29A11
(MID SECTION)
TB376
35
2 (N)
ASN86-57B22
1
ASN86-57C22
2 (P)
ASN86-58B22
2
ASN86-58C22
AN/ASN-86
2 (88)
ASN86-199B22
3
ASN86-199C22
TB375
36
13 (14)
ASN76-86B22
14
ASN76-86A22
13 (29)
ASN86-97B22
12
ASN86-97C22
AN/ASN-86
P/O AUTO PILOT JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A6
(AFT SECTION)
37
TB148
NOTE 3
13
C808B20
(20 GAUGE JUMPER)
26 (14)
F522C22
12
F522D22
26 (12)
F521C22
14
F521D22
38
TB146
P
18 (1)
F500D22 (BLU)
13
C160A22 (BLU)
C160B22 (BLU)
AN/ASW-12 (V) 2
NOTE 3
14
18 (2)
F501D22 (RED)
15
C161A22 (RED)
C161B22 (RED)
P
39
TB141
C58E14N
13
C58K14
C58A20
26 (13)
F523C22
ASN86-124A22
AN/ASN-86
26 (15)
F524C22
ASN76-74A20
AN/ASN-76
AN/ASW-12 (V) 2
C58F20
14
P/O REMOTE CIRCUIT BREAKER AND AC - DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
40
ASN-33/HEAD
26 (11)
F560A20
CB77
2
1
2A
C163B20A
41
ASN-33/ATT
26 (16)
F561A20
CB76
2
1
3A
X14
AC POWER SUPPLY AND DISTRIBUTION
42
ASN - 33/DC
26 (17)
RN3674A20
CB78
2
1
1A
P49
DC POWER SUPPLY AND DISTRIBUTION
43
NEEDLE/NO. 1
11 (J)
RN3668A20
CB85
2
1
1A
X22
44
NEEDLE/NO 2
11 (d)
RN3672A20
CB110
2
1
1A
X22
AC POWER SUPPLY AND DISTRIBUTION

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

KY28 16 C 22 N

FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

24 (88)

BASE LINE — LOCATION — PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4. ▭ INDICATES EQUIPMENT MARKINGS.

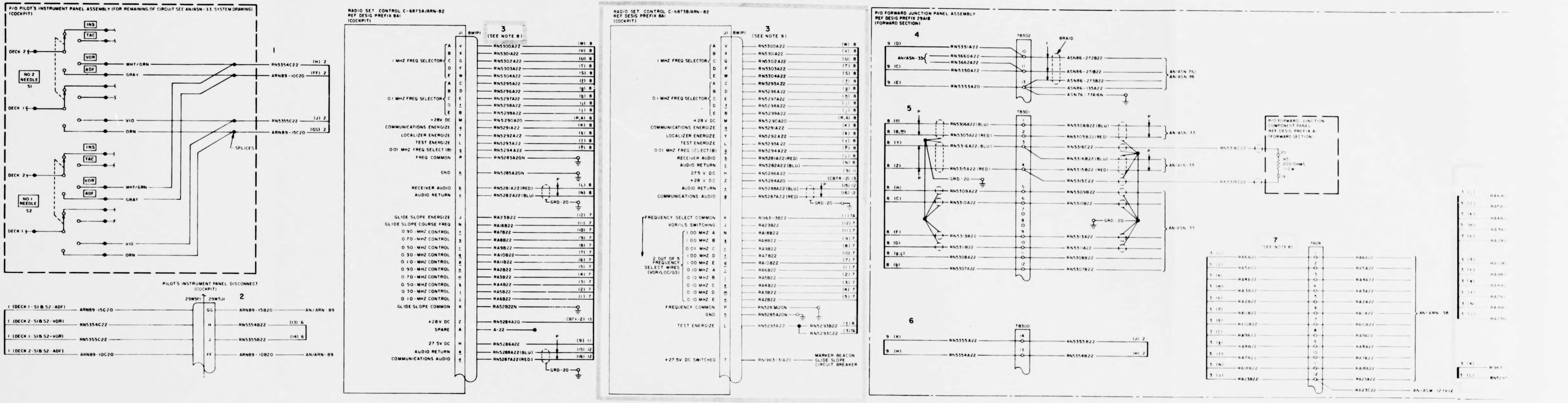
5. FOR REMAINDER OF WIRES CONTAINED IN SHIELD SEE AN/ASN-86, TB54, TERMINALS 16, 17 AND 18

6. ⊖ INDICATES SHIELD CONNECTION

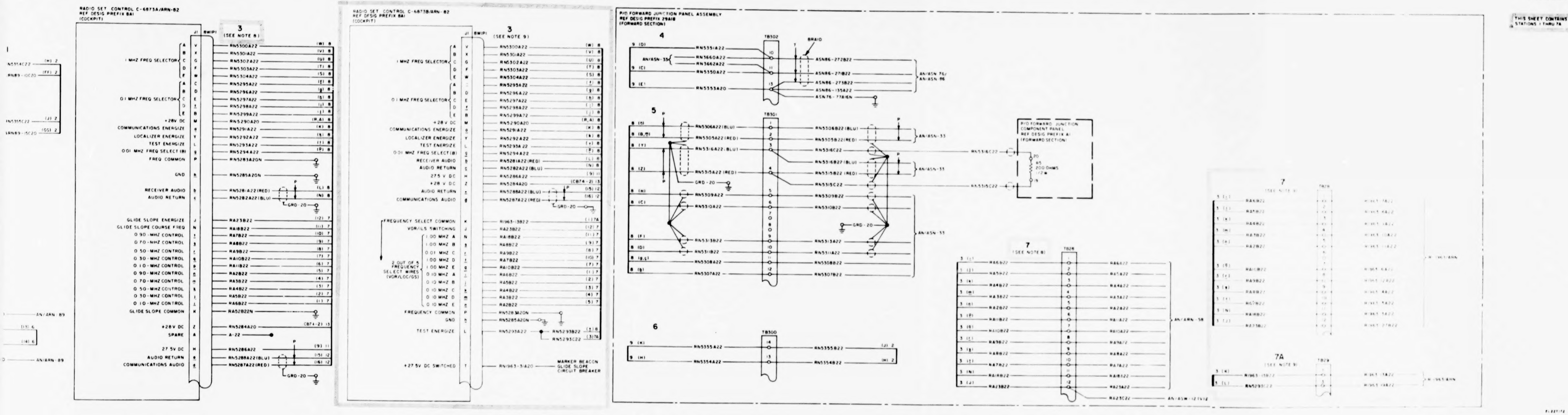
7. APPLIES BEFORE INCORPORATION OF MWO 55-1510-213-50-1

8. APPLIES AFTER INCORPORATION OF MWO 55-1510-213-50-1

FO-9. Navigational display facility wiring diagram (sheet 8 of 8).

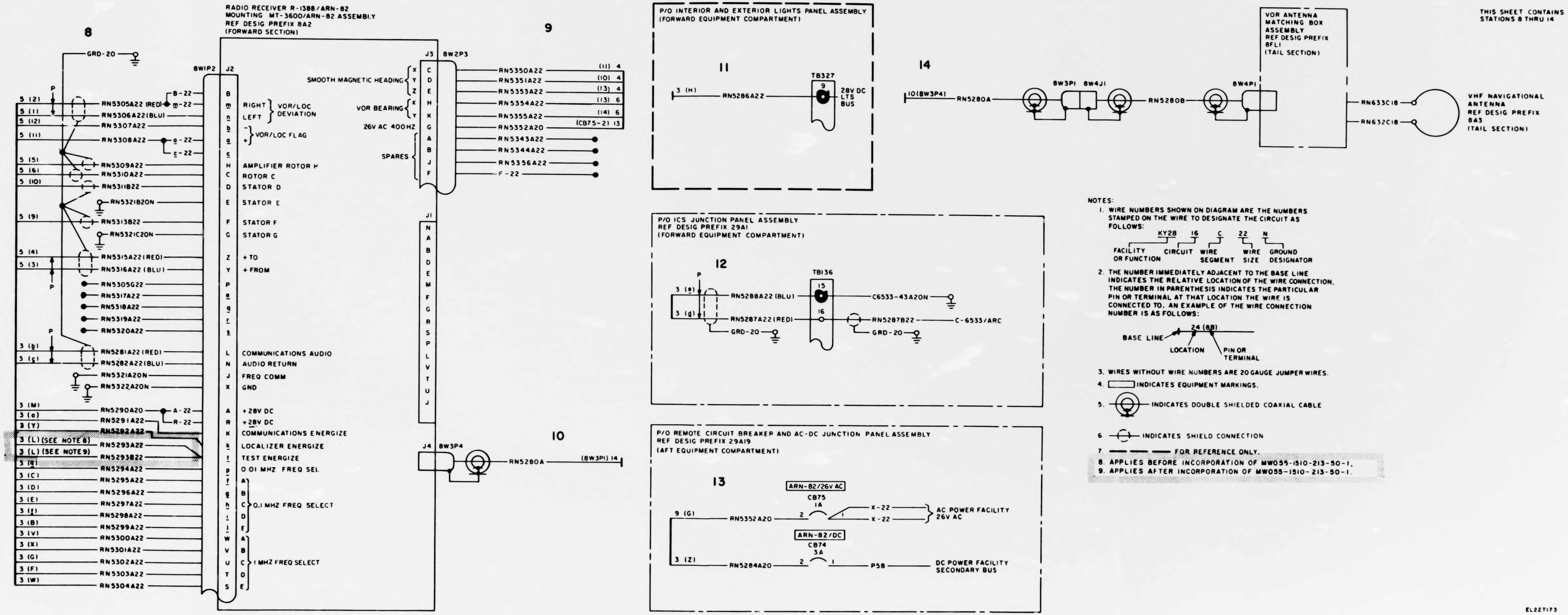

P/O PILOT'S INSTRUMENT PANEL ASSEMBLY (FOR REMAINING OF CIRCUIT SEE AN/ASN-33 SYSTEM DRAWING)
(COCKPIT)
INS
TAC
VOR
ADF
DECK 2
DECK 1
NO 2 NEEDLE
S1
NO 1 NEEDLE
S2
WHT/GRN
GRAY
VIO
ORN
SPLICES
1
RN5354C22
ARN89-10C20
RN5355C22
ARN89-15C20
(H) 2
(FF) 2
(J) 2
(GG) 2
PILOT'S INSTRUMENT PANEL DISCONNECT
(COCKPIT)
2
29W5P1
29W5J1
1 (DECK 1-S1 & S2-ADF)
1 (DECK 2-S1 & S2-VOR)
1 (DECK 1-S1 & S2-VOR)
1 (DECK 2-S1 & S2-ADF)
GG
H
J
FF
ARN89-15B20
RN5354B22
RN5355B22
ARN89-10B20
AN/ARN-89
(13) 6
(14) 6
RADIO SET CONTROL C-6873A/ARN-82
REF DESIG PREFIX 8A1
(COCKPIT)
J1
8W1P1
3
(SEE NOTE 8)
1 MHZ FREQ SELECTOR
0.1 MHZ FREQ SELECTOR
+28V DC
COMMUNICATIONS ENERGIZE
LOCALIZER ENERGIZE
TEST ENERGIZE
0.01 MHZ FREQ SELECT (B)
FREQ COMMON
GND
RECEIVER AUDIO
AUDIO RETURN
GLIDE SLOPE ENERGIZE
GLIDE SLOPE COURSE FREQ
0.90-MHZ CONTROL
0.70-MHZ CONTROL
0.50-MHZ CONTROL
0.30-MHZ CONTROL
0.10-MHZ CONTROL
GLIDE SLOPE COMMON
SPARE
27.5V DC
COMMUNICATIONS AUDIO
RN5300A22
RN5301A22
RN5302A22
RN5303A22
RN5304A22
RN5295A22
RN5296A22
RN5297A22
RN5298A22
RN5299A22
RN5290A20
RN5291A22
RN5292A22
RN5293A22
RN5294A22
RN5283A20N
RN5285A20N
RN5281A22 (RED)
RN5282A22 (BLU)
GRD-20
RA23B22
RA18B22
RA7B22
RA8B22
RA9B22
RA10B22
RA11B22
RA2B22
RA3B22
RA4B22
RA5B22
RA6B22
RA52B22N
RN5284A20
A-22
RN5286A22
RN5288A22 (BLU)
RN5287A22 (RED)
(CB74-2) 13
(9) 11
(15) 12
(16) 12
P
RADIO SET CONTROL C-6873B/ARN-82
REF DESIG PREFIX 8A1
(COCKPIT)
3
(SEE NOTE 9)
FREQUENCY SELECT COMMON
VOR/ILS SWITCHING
1.00 MHZ A
1.00 MHZ B
0.01 MHZ C
1.00 MHZ D
1.00 MHZ E
0.10 MHZ A
0.10 MHZ B
0.10 MHZ C
0.10 MHZ D
0.10 MHZ E
2 OUT OF 5 FREQUENCY SELECT WIRES (VOR/LOC/GS)
FREQUENCY COMMON
+27.5V DC SWITCHED
R1963-13B22
RN5293B22
RN5293C22
RN1963-31A20
MARKER BEACON GLIDE SLOPE CIRCUIT BREAKER
(1) 7A
(3) 7A
P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
4
TB302
BRAID
9 (D)
9 (C)
9 (E)
AN/ASN-33
RN5351A22
RN3660A22
RN3662A22
RN5350A22
RN5353A20
ASN86-272B22
ASN86-271B22
ASN86-273B22
ASN86-135A22
ASN76-77A16N
AN/ASN 76/
AN/ASN 86
5
TB301
8 (n)
8 (B,m)
8 (Y)
8 (Z)
8 (H)
8 (C)
8 (F)
8 (D)
8 (g,c)
8 (b)
RN5306A22 (BLU)
RN5305A22 (RED)
RN5316A22 (BLU)
RN5315A22 (RED)
RN5309A22
RN5310A22
RN5313B22
RN5311B22
RN5308A22
RN5307A22
RN5306B22 (BLU)
RN5305B22 (RED)
RN5316C22
RN5316B22 (BLU)
RN5315B22 (RED)
RN5315C22
RN5309B22
RN5310B22
RN5313A22
RN5311A22
RN5308B22
RN5307B22
AN/ASN-33
P/O FORWARD JUNCTION COMPONENT PANEL
REF DESIG PREFIX A1
(FORWARD SECTION)
R5
200 OHMS
1/2 W
20
19
6
TB300
9 (K)
9 (H)
RN5355A22
RN5354A22
RN5355B22
RN5354B22
7
(SEE NOTE 8)
TB28
RA6B22
RA5B22
RA4B22
RA3B22
RA2B22
RA11B22
RA10B22
RA9B22
RA8B22
RA7B22
RA18B22
RA23B22
RA6A22
RA5A22
RA4A22
RA3A22
RA2A22
RA11A22
RA10A22
RA9A22
RA8A22
RA7A22
RA18A22
RA23A22
RA23C22
AN/ARN-58
AN/ASW-12(V)2
R1963
RN5293

THIS SHEET CONTAINS STATIONS 1 THRU 7A


RADIO SET CONTROL C-6873A/ARN-82
REF DESIG PREFIX 8A1
(COCKPIT)
3
(SEE NOTE 8)
RADIO SET CONTROL C-6873B/ARN-82
REF DESIG PREFIX 8A1
(COCKPIT)
3
(SEE NOTE 9)
P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
4
TB302
BRAID
5
TB301
6
TB300
P/O FORWARD JUNCTION COMPONENT PANEL
REF DESIG PREFIX A1
(FORWARD SECTION)
7
(SEE NOTE 8)
TB28
7
(SEE NOTE 9)
TB28
7A
(SEE NOTE 9)
TB29
1 MHZ FREQ SELECTOR
0.1 MHZ FREQ SELECTOR
+28V DC
COMMUNICATIONS ENERGIZE
LOCALIZER ENERGIZE
TEST ENERGIZE
0.01 MHZ FREQ SELECT (B)
FREQ COMMON
GND
RECEIVER AUDIO
AUDIO RETURN
GLIDE SLOPE ENERGIZE
GLIDE SLOPE COURSE FREQ
GLIDE SLOPE COMMON
SPARE
27.5V DC
COMMUNICATIONS AUDIO
FREQUENCY SELECT COMMON
VOR/ILS SWITCHING
2 OUT OF 5 FREQUENCY SELECT WIRES (VOR/LOC/GS)
FREQUENCY COMMON
+27.5V DC SWITCHED
MARKER BEACON GLIDE SLOPE CIRCUIT BREAKER
AN/ASN-33
AN/ASN-76/AN/ASN-86
AN/ARN-58
AN/ARN-89
GRD-20

FO-10. VOR facility wiring diagram (sheet 1 of 2)

THIS SHEET CONTAINS
STATIONS 8 THRU 14


8
GRD-20
8W1P2
J2
5 (2)
5 (1)
5 (12)
5 (11)
5 (5)
5 (6)
5 (10)
5 (9)
5 (4)
5 (3)
3 (b)
3 (c)
3 (M)
3 (a)
3 (Y)
3 (L) (SEE NOTE 8)
3 (L) (SEE NOTE 9)
3 (q)
3 (C)
3 (D)
3 (E)
3 (f)
3 (B)
3 (V)
3 (X)
3 (G)
3 (F)
3 (W)
P
RN5305A22 (RED)
RN5306A22 (BLU)
RN5307A22
RN5308A22
B-22
m-22
a-22
c-22
RN5309A22
RN5310A22
RN5311B22
RN5321B20N
RN5313B22
RN5321C20N
RN5315A22 (RED)
RN5316A22 (BLU)
RN5305G22
RN5317A22
RN5318A22
RN5319A22
RN5320A22
RN5281A22 (RED)
RN5282A22 (BLU)
RN5321A20N
RN5322A20N
RN5290A20
A-22
R-22
RN5291A22
RN5292A22
RN5293A22
RN5293B22
RN5294A22
RN5295A22
RN5296A22
RN5297A22
RN5298A22
RN5299A22
RN5300A22
RN5301A22
RN5302A22
RN5303A22
RN5304A22
RADIO RECEIVER R-1388/ARN-82
MOUNTING MT-3600/ARN-82 ASSEMBLY
REF DESIG PREFIX 8A2
(FORWARD SECTION)
B
m RIGHT
n LEFT
VOR/LOC DEVIATION
b −
a +
VOR/LOC FLAG
c
H AMPLIFIER ROTOR H
C ROTOR C
D STATOR D
E STATOR E
F STATOR F
G STATOR G
Z + TO
Y + FROM
P
e
q
r
s
L COMMUNICATIONS AUDIO
N AUDIO RETURN
J FREQ COMM
X GND
A +28V DC
R +28V DC
K COMMUNICATIONS ENERGIZE
k LOCALIZER ENERGIZE
t TEST ENERGIZE
p 0.01 MHZ FREQ SEL
f A
g B
h C
i D
j E
0.1 MHZ FREQ SELECT
W A
V B
U C
T D
S E
1 MHZ FREQ SELECT
9
J3
8W2P3
SMOOTH MAGNETIC HEADING
X C
Y D
Z E
VOR BEARING
X H
Y K
26V AC 400HZ G
SPARES
A
B
J
F
RN5350A22 (11) 4
RN5351A22 (10) 4
RN5353A22 (13) 4
RN5354A22 (13) 6
RN5355A22 (14) 6
RN5352A20 (CB75-2) 13
RN5343A22
RN5344A22
RN5356A22
F-22
J1
N
A
B
D
E
M
F
G
R
S
P
L
V
T
U
J
10
J4
8W3P4
RN5280A
(8W3P1) 14
P/O INTERIOR AND EXTERIOR LIGHTS PANEL ASSEMBLY
(FORWARD EQUIPMENT COMPARTMENT)
11
3 (H)
RN5286A22
TB327
9
28V DC
LTS
BUS
P/O ICS JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A1
(FORWARD EQUIPMENT COMPARTMENT)
12
P
3 (e)
3 (d)
RN5288A22 (BLU)
RN5287A22 (RED)
GRD-20
TB136
15
16
C6533-43A20N
RN5287B22
C-6533/ARC
GRD-20
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT EQUIPMENT COMPARTMENT)
13
ARN-82/26V AC
CB75
1A
9 (G)
RN5352A20
2
1
X-22
X-22
AC POWER FACILITY
26V AC
ARN-82/DC
CB74
3A
3 (Z)
RN5284A20
2
1
P58
DC POWER FACILITY
SECONDARY BUS
14
10 (8W3P4)
RN5280A
8W3P1
8W4J1
RN5280B
8W4P1
VOR ANTENNA
MATCHING BOX
ASSEMBLY
REF DESIG PREFIX
8FL1
(TAIL SECTION)
RN633C18
RN632C18
VHF NAVIGATIONAL
ANTENNA
REF DESIG PREFIX
8A3
(TAIL SECTION)

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

KY28 16 C 22 N

FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

24 (8B)

BASE LINE — LOCATION — PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4. ▭ INDICATES EQUIPMENT MARKINGS.

5. INDICATES DOUBLE SHIELDED COAXIAL CABLE

6. INDICATES SHIELD CONNECTION

7. — — — FOR REFERENCE ONLY.

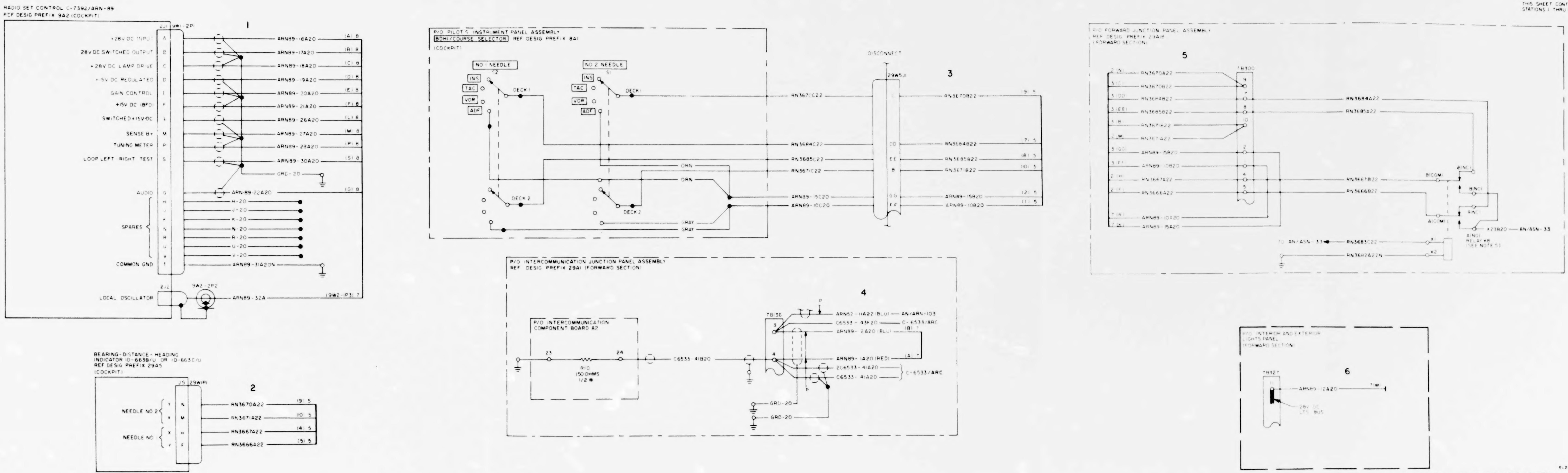
8. APPLIES BEFORE INCORPORATION OF MWO55-1510-213-50-1.

9. APPLIES AFTER INCORPORATION OF MWO55-1510-213-50-1.

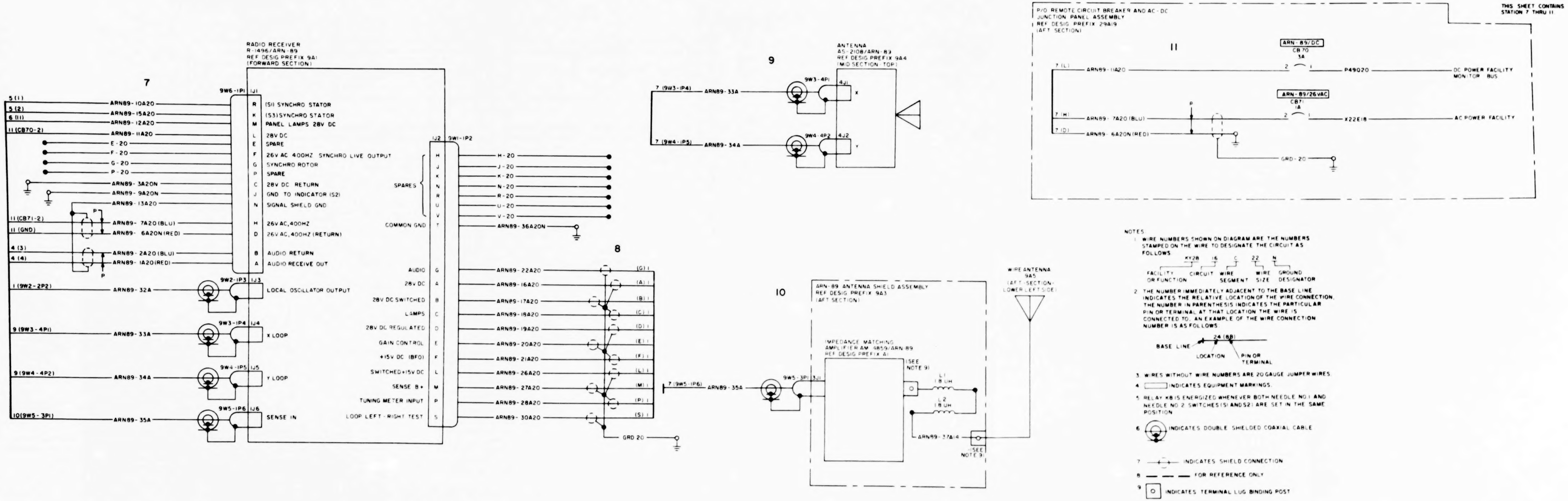
EL22T173

FO-10. VOR facility wiring diagram (sheet 2 of 2).

THIS SHEET CONTAINS
STATIONS 1 THRU 6


RADIO SET CONTROL C-7392/ARN-89
REF DESIG PREFIX 9A2 (COCKPIT)
2J1
9W1-2P1
1
+28V DC INPUT
28V DC SWITCHED OUTPUT
+28V DC LAMP DRIVE
+15V DC REGULATED
GAIN CONTROL
+15V DC (BFO)
SWITCHED +15V DC
SENSE B+
TUNING METER
LOOP LEFT-RIGHT TEST
AUDIO
SPARES
COMMON GND
A
B
C
D
E
F
L
M
P
S
G
H
J
K
N
R
U
V
T
ARN89-16A20
ARN89-17A20
ARN89-18A20
ARN89-19A20
ARN89-20A20
ARN89-21A20
ARN89-26A20
ARN89-27A20
ARN89-28A20
ARN89-30A20
GRD-20
ARN-89-22A20
H-20
J-20
K-20
N-20
R-20
U-20
V-20
ARN89-31A20N
(A) 8
(B) 8
(C) 8
(D) 8
(E) 8
(F) 8
(L) 8
(M) 8
(P) 8
(S) 8
(G) 8
2J2
9W2-2P2
LOCAL OSCILLATOR
ARN89-32A
(9W2-1P3) 7
BEARING-DISTANCE-HEADING
INDICATOR ID-663B/U OR ID-663C/U
REF DESIG PREFIX 29A5
(COCKPIT)
J5
29W1P1
2
NEEDLE NO 2
NEEDLE NO 1
Y
X
X
Y
N
M
H
F
RN3670A22
RN3671A22
RN3667A22
RN3666A22
(9) 5
(10) 5
(4) 5
(5) 5
P/O PILOT'S INSTRUMENT PANEL ASSEMBLY
BDHI/COURSE SELECTOR REF DESIG PREFIX 8A1
(COCKPIT)
NO 1 NEEDLE
S2
NO 2 NEEDLE
S1
INS
TAC
VOR
ADF
DECK 1
DECK 2
ORN
ORN
GRAY
GRAY
DISCONNECT
29W5J1
3
RN3670C22
RN3684C22
RN3685C22
RN3671C22
ARN89-15C20
ARN89-10C20
C
DD
EE
B
GG
FF
RN3670B22
RN3684B22
RN3685B22
RN3671B22
ARN89-15B20
ARN89-10B20
(9) 5
(7) 5
(8) 5
(10) 5
(2) 5
(1) 5
P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A1 (FORWARD SECTION)
4
P/O INTERCOMMUNICATION
COMPONENT BOARD A2
23
24
R10
150 OHMS
1/2 W
C6533-41B20
TB136
3
4
P
ARN52-11A22 (BLU) — AN/ARN-103
C6533-43F20 — C-6533/ARC
ARN89-2A20 (BLU)
(B) 7
ARN89-1A20 (RED)
(A) 7
2C6533-41A20
C6533-41A20
C-6533/ARC
GRD-20
GRD-20
P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A1B
(FORWARD SECTION)
5
TB300
2 (N)
3 (C)
3 (DD)
3 (EE)
3 (B)
2 (M)
3 (GG)
3 (FF)
2 (H)
2 (F)
7 (R)
7 (B)
RN3670A22
RN3670B22
RN3684B22
RN3685B22
RN3671B22
RN3671A22
ARN89-15B20
ARN89-10B20
RN3667A22
RN3666A22
ARN89-10A20
ARN89-15A20
9
7
8
10
2
1
4
5
RN3684A22
RN3685A22
RN3667B22
RN3666B22
B(COM)
B(NC)
B(NO)
A(NC)
A(COM)
A(NO)
X23B20 — AN/ASN-33
RELAY K8
(SEE NOTE 5)
TO AN/ASN-33
RN3683C22
RN3682A22N
X1
X2
P/O INTERIOR AND EXTERIOR
LIGHTS PANEL
(FORWARD SECTION)
6
TB327
11
ARN89-12A20
7(M)
28V DC
LTS BUS
EL221174

FO-11. Automatic direction finder facility wiring diagram (sheet 1 of 2).


7
RADIO RECEIVER
R-1496/ARN-89
REF DESIG PREFIX 9A1
(FORWARD SECTION)
9W6-1P1
1J1
5 (1)
ARN89-10A20
R (S1) SYNCHRO STATOR
5 (2)
ARN89-15A20
K (S3) SYNCHRO STATOR
6 (11)
ARN89-12A20
M PANEL LAMPS 28V DC
11 (CB70-2)
ARN89-11A20
L 28V DC
E-20
E SPARE
F-20
F 26V AC 400HZ SYNCHRO LIVE OUTPUT
G-20
G SYNCHRO ROTOR
P-20
P SPARE
ARN89-3A20N
C 28V DC RETURN
ARN89-9A20N
J GND TO INDICATOR (S2)
ARN89-13A20
N SIGNAL SHIELD GND
11 (CB71-2)
ARN89-7A20 (BLU)
H 26V AC, 400HZ
11 (GND)
ARN89-6A20N (RED)
D 26V AC, 400HZ (RETURN)
4 (3)
ARN89-2A20 (BLU)
B AUDIO RETURN
4 (4)
ARN89-1A20 (RED)
A AUDIO RECEIVE OUT
P
1 (9W2-2P2)
ARN89-32A
9W2-1P3
1J3
LOCAL OSCILLATOR OUTPUT
9 (9W3-4P1)
ARN89-33A
9W3-1P4
1J4
X LOOP
9 (9W4-4P2)
ARN89-34A
9W4-1P5
1J5
Y LOOP
10 (9W5-3P1)
ARN89-35A
9W5-1P6
1J6
SENSE IN
1J2
9W1-1P2
SPARES
H H-20
J J-20
K K-20
N N-20
R R-20
U U-20
V V-20
COMMON GND T ARN89-36A20N
8
AUDIO G ARN89-22A20 (G) 1
28V DC A ARN89-16A20 (A) 1
28V DC SWITCHED B ARN89-17A20 (B) 1
LAMPS C ARN89-18A20 (C) 1
28V DC REGULATED D ARN89-19A20 (D) 1
GAIN CONTROL E ARN89-20A20 (E) 1
+15V DC (BFO) F ARN89-21A20 (F) 1
SWITCHED +15V DC L ARN89-26A20 (L) 1
SENSE B+ M ARN89-27A20 (M) 1
TUNING METER INPUT P ARN89-28A20 (P) 1
LOOP LEFT-RIGHT TEST S ARN89-30A20 (S) 1
GRD 20
9
ANTENNA
AS-2108/ARN-89
REF DESIG PREFIX 9A4
(MID SECTION-TOP)
7 (9W3-1P4)
ARN89-33A
9W3-4P1
4J1
X
7 (9W4-1P5)
ARN89-34A
9W4-4P2
4J2
Y
10
ARN-89 ANTENNA SHIELD ASSEMBLY
REF DESIG PREFIX 9A3
(AFT SECTION)
IMPEDANCE MATCHING
AMPLIFIER AM-4859/ARN-89
REF DESIG PREFIX A1
7 (9W5-1P6)
ARN89-35A
9W5-3P1
3J1
(SEE NOTE 9)
L1
18 UH
L2
18 UH
ARN89-37A14
(SEE NOTE 9)
WIRE ANTENNA
9A5
(AFT-SECTION-LOWER LEFT SIDE)
11
P/O REMOTE CIRCUIT BREAKER AND AC-DC
JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
ARN-89/DC
CB70
3A
7 (L)
ARN89-11A20
2
1
P49Q20
DC POWER FACILITY MONITOR BUS
ARN-89/26VAC
CB71
1A
7 (H)
ARN89-7A20 (BLU)
X22E18
AC POWER FACILITY
7 (D)
ARN89-6A20N (RED)
P
GRD-20

THIS SHEET CONTAINS
STATION 7 THRU 11

NOTES

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS

KY28 16 C 22 N

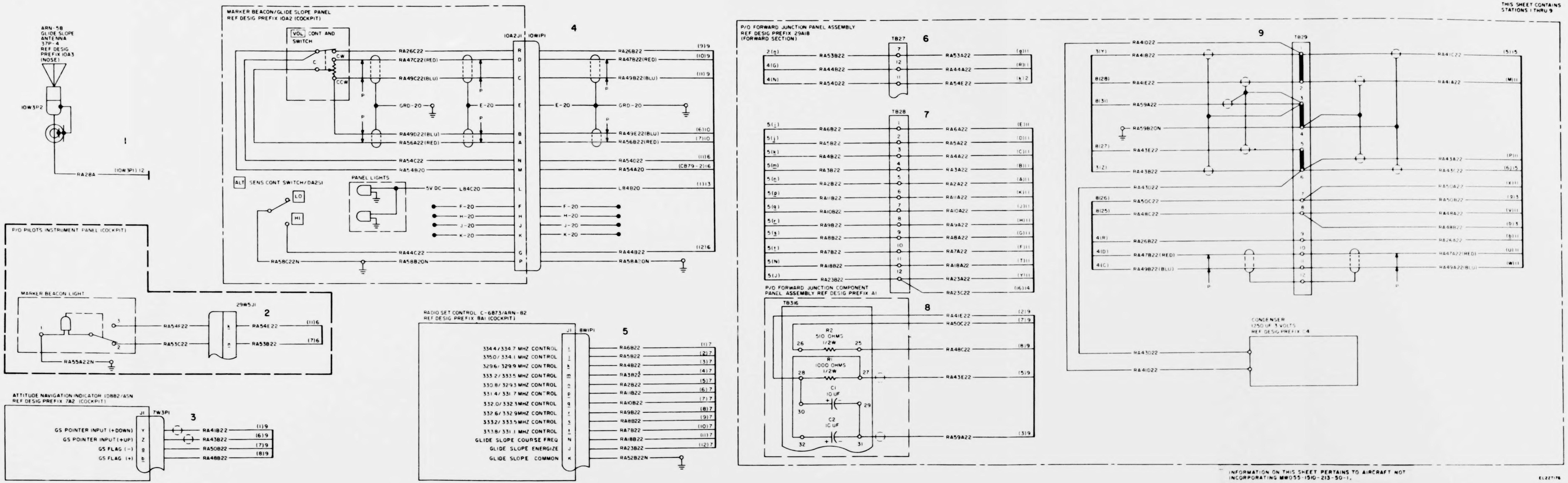
FACILITY OR FUNCTION
CIRCUIT
WIRE SEGMENT
WIRE SIZE
GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS

24 (8B)
BASE LINE
LOCATION
PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. RELAY K8 IS ENERGIZED WHENEVER BOTH NEEDLE NO 1 AND NEEDLE NO 2 SWITCHES (S1 AND S2) ARE SET IN THE SAME POSITION
6. ◎ INDICATES DOUBLE SHIELDED COAXIAL CABLE
7. —+—+— INDICATES SHIELD CONNECTION
8. — — — FOR REFERENCE ONLY
9. ⊡ INDICATES TERMINAL LUG BINDING POST

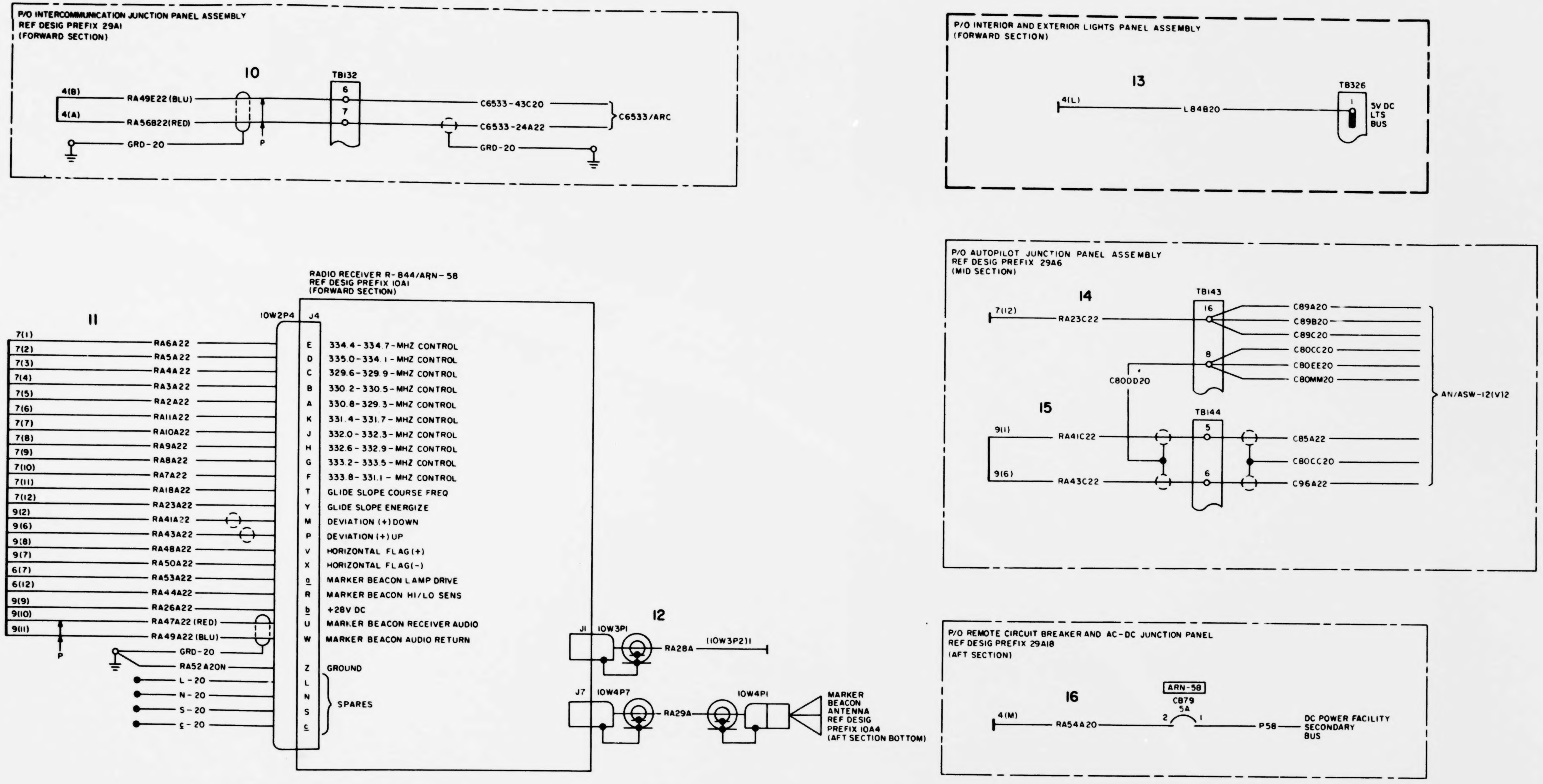
FO-11. Automatic direction finder facility wiring diagram (sheet 2 of 2).


THIS SHEET CONTAINS STATIONS 1 THRU 9
ARN-58 GLIDE SLOPE ANTENNA 37P-4 REF DESIG PREFIX 10A3 (NOSE)
10W3P2
1
RA28A
(10W3P1) 12
MARKER BEACON/GLIDE SLOPE PANEL REF DESIG PREFIX 10A2 (COCKPIT)
VOL CONT AND SWITCH
CW
CCW
ALT SENS CONT SWITCH/DA2S1
LO
HI
PANEL LIGHTS
5V DC
10A2J1
10W1P1
4
RA26C22
RA47C22(RED)
RA49C22(BLU)
GRD-20
E-20
RA49D22(BLU)
RA56A22(RED)
RA54C22
RA54B20
L84C20
F-20
H-20
J-20
K-20
RA44C22
RA58C22N
RA58B20N
RA26B22
RA47B22(RED)
RA49B22(BLU)
RA49E22(BLU)
RA56B22(RED)
RA54D22
RA54A20
L84B20
RA44B22
RA58A20N
(9)9
(10)9
(11)9
(6)10
(7)10
(11)6
(CB79-2)16
(1)13
(12)16
P/O PILOTS INSTRUMENT PANEL (COCKPIT)
MARKER BEACON LIGHT
29W5J1
2
RA54F22
RA53C22
RA55A22N
RA54E22
RA53B22
(11)6
(7)6
ATTITUDE NAVIGATION INDICATOR ID882/ASN REF DESIG PREFIX 7A2 (COCKPIT)
J1
7W3P1
3
GS POINTER INPUT (+DOWN)
GS POINTER INPUT (+UP)
GS FLAG (-)
GS FLAG (+)
RA41B22
RA43B22
RA50B22
RA48B22
(1)9
(6)9
(7)9
(8)9
RADIO SET CONTROL C-6873/ARN-82 REF DESIG PREFIX 8A1 (COCKPIT)
J1
8W1P1
5
334.4/334.7 MHZ CONTROL
335.0/334.1 MHZ CONTROL
329.6/329.9 MHZ CONTROL
333.2/333.5 MHZ CONTROL
330.8/329.3 MHZ CONTROL
331.4/331.7 MHZ CONTROL
332.0/332.3 MHZ CONTROL
332.6/332.9 MHZ CONTROL
333.2/333.5 MHZ CONTROL
333.8/331.1 MHZ CONTROL
GLIDE SLOPE COURSE FREQ
GLIDE SLOPE ENERGIZE
GLIDE SLOPE COMMON
RA6B22
RA5B22
RA4B22
RA3B22
RA2B22
RA11B22
RA10B22
RA9B22
RA8B22
RA7B22
RA18B22
RA23B22
RA52B22N
P/O FORWARD JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A1B (FORWARD SECTION)
TB27
6
RA53B22
RA44B22
RA54D22
RA53A22
RA44A22
RA54E22
TB28
7
RA6B22
RA5B22
RA4B22
RA3B22
RA2B22
RA11B22
RA10B22
RA9B22
RA8B22
RA7B22
RA18B22
RA23B22
RA6A22
RA5A22
RA4A22
RA3A22
RA2A22
RA11A22
RA10A22
RA9A22
RA8A22
RA7A22
RA18A22
RA23A22
RA23C22
P/O FORWARD JUNCTION COMPONENT PANEL ASSEMBLY REF DESIG PREFIX A1
TB316
8
R2 510 OHMS 1/2W
R1 1000 OHMS 1/2W
C1 10 UF
C2 10 UF
RA41E22
RA50C22
RA48C22
RA43E22
RA59A22
9
TB29
RA41D22
RA41B22
RA41E22
RA59A22
RA59B20N
RA43E22
RA43B22
RA43D22
RA50C22
RA48C22
RA26B22
RA47B22(RED)
RA49B22(BLU)
RA41C22
RA41A22
RA43A22
RA43C22
RA50A22
RA50B22
RA48A22
RA48B22
RA26A22
RA47A22(RED)
RA49A22(BLU)
CONDENSER 1250 UF 3 VOLTS REF DESIG PREFIX 14
RA43D22
RA41D22
EL2271?6

INFORMATION ON THIS SHEET PERTAINS TO AIRCRAFT NOT INCORPORATING MWO55-1510-213-50-1.

FO-12. Glide slope and marker beacon facility (sheet 1 of 4).

THIS SHEET CONTAINS STATIONS 10 THRU 16


P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A1
(FORWARD SECTION)
10
4(B)
4(A)
RA49E22 (BLU)
RA56B22 (RED)
GRD-20
P
TB132
6
7
C6533-43C20
C6533-24A22
GRD-20
C6533/ARC
P/O INTERIOR AND EXTERIOR LIGHTS PANEL ASSEMBLY
(FORWARD SECTION)
13
4(L)
L84B20
TB326
1
5V DC LTS BUS
11
7(1)
7(2)
7(3)
7(4)
7(5)
7(6)
7(7)
7(8)
7(9)
7(10)
7(11)
7(12)
9(2)
9(6)
9(8)
9(7)
6(7)
6(12)
9(9)
9(10)
9(11)
P
RA6A22
RA5A22
RA4A22
RA3A22
RA2A22
RA11A22
RA10A22
RA9A22
RA8A22
RA7A22
RA18A22
RA23A22
RA41A22
RA43A22
RA48A22
RA50A22
RA53A22
RA44A22
RA26A22
RA47A22 (RED)
RA49A22 (BLU)
GRD-20
RA52A20N
L-20
N-20
S-20
c-20
10W2P4
J4
RADIO RECEIVER R-844/ARN-58
REF DESIG PREFIX 10A1
(FORWARD SECTION)
E 334.4-334.7-MHZ CONTROL
D 335.0-334.1-MHZ CONTROL
C 329.6-329.9-MHZ CONTROL
B 330.2-330.5-MHZ CONTROL
A 330.8-329.3-MHZ CONTROL
K 331.4-331.7-MHZ CONTROL
J 332.0-332.3-MHZ CONTROL
H 332.6-332.9-MHZ CONTROL
G 333.2-333.5-MHZ CONTROL
F 333.8-331.1-MHZ CONTROL
T GLIDE SLOPE COURSE FREQ
Y GLIDE SLOPE ENERGIZE
M DEVIATION (+) DOWN
P DEVIATION (+) UP
V HORIZONTAL FLAG (+)
X HORIZONTAL FLAG (-)
a MARKER BEACON LAMP DRIVE
R MARKER BEACON HI/LO SENS
b +28V DC
U MARKER BEACON RECEIVER AUDIO
W MARKER BEACON AUDIO RETURN
Z GROUND
L
N
S
c
SPARES
12
J1
10W3P1
RA28A
(10W3P2)1
J7
10W4P7
RA29A
10W4P1
MARKER BEACON ANTENNA
REF DESIG PREFIX 10A4
(AFT SECTION BOTTOM)
P/O AUTOPILOT JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A6
(MID SECTION)
14
7(12)
RA23C22
TB143
16
8
C89A20
C89B20
C89C20
C80CC20
C80EE20
C80MM20
C80DD20
AN/ASW-12(V)12
15
9(1)
9(6)
RA41C22
RA43C22
TB144
5
6
C85A22
C80CC20
C96A22
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL
REF DESIG PREFIX 29A18
(AFT SECTION)
16
4(M)
RA54A20
ARN-58
CB79
5A
2
1
P58
DC POWER FACILITY SECONDARY BUS

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   KY28 16 C 22 N

   FACILITY OR FUNCTION, CIRCUIT, WIRE SEGMENT, WIRE SIZE, GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

   24 (BB)

   BASE LINE, LOCATION, PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4. ▭ INDICATES EQUIPMENT MARKINGS.

5. — — — SHOWN FOR REF ONLY.

6. ◎ INDICATES DOUBLE SHIELDED COAXIAL CABLE.

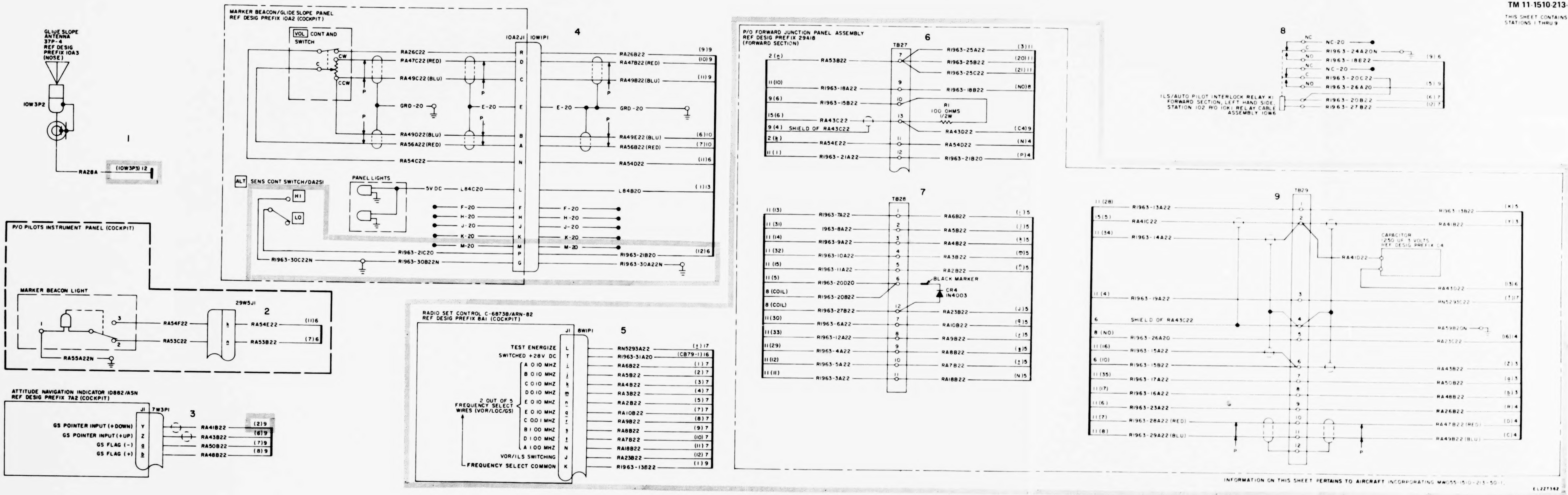
7. —⊖— INDICATES SHIELD CONNECTION.

INFORMATION ON THIS SHEET PERTAINS TO AIRCRAFT NOT INCORPORATING MWO55-1510-213-50-1

EL22T177

FO-12. Glide slope and marker beacon facility (sheet 2 of 4).

THIS SHEET CONTAINS STATIONS 1 THRU 9

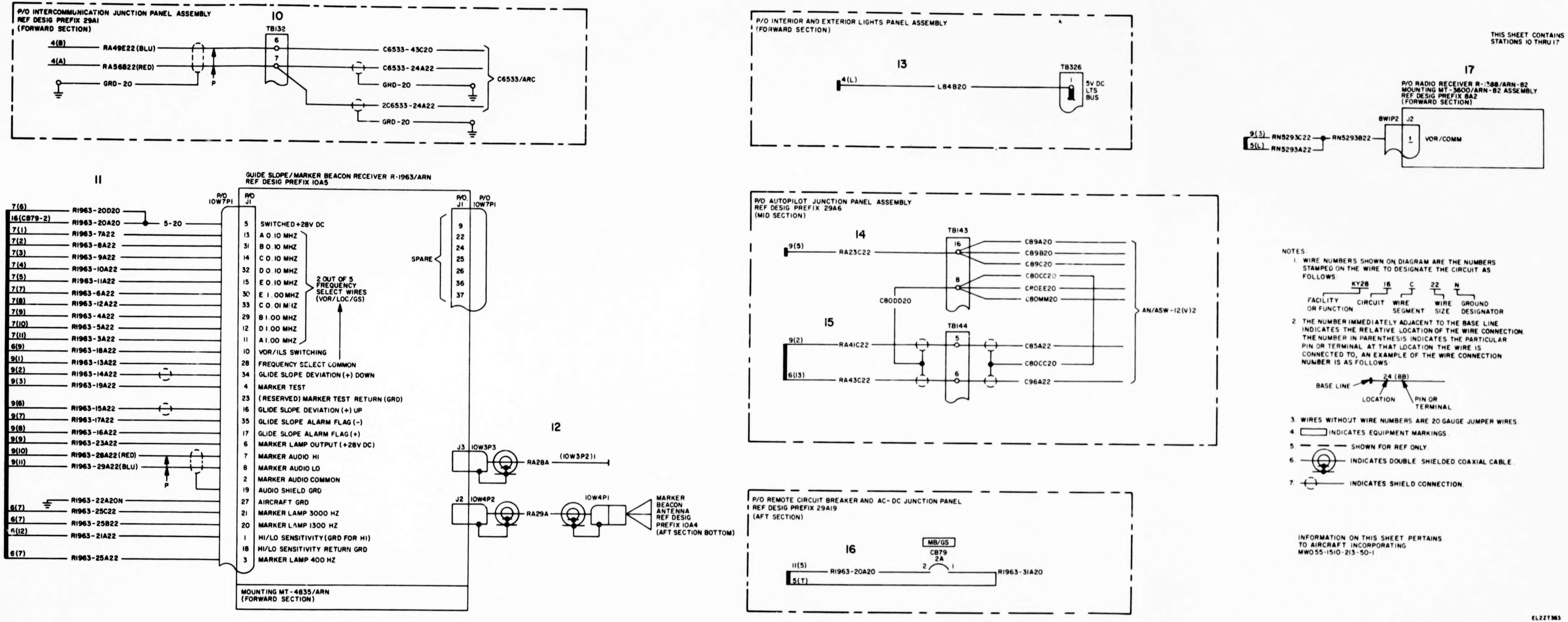

GLIDE SLOPE ANTENNA 37P-4 REF DESIG PREFIX 10A3 (NOSE)
10W3P2
RA28A
(10W3P3) 12
1
MARKER BEACON/GLIDE SLOPE PANEL REF DESIG PREFIX 10A2 (COCKPIT)
VOL CONT AND SWITCH
CW
CCW
ALT SENS CONT SWITCH/DA2S1
HI
LO
PANEL LIGHTS
10A2J1
10W1P1
4
RA26C22
RA47C22 (RED)
RA49C22 (BLU)
GRD-20
E-20
RA49D22 (BLU)
RA56A22 (RED)
RA54C22
5V DC
L84C20
F-20
H-20
J-20
K-20
M-20
R1963-21C20
R1963-30C22N
R1963-30B22N
RA26B22
RA47B22 (RED)
RA49B22 (BLU)
RA49E22 (BLU)
RA56B22 (RED)
RA54D22
L84B20
R1963-21B20
R1963-30A22N
P/O PILOTS INSTRUMENT PANEL (COCKPIT)
MARKER BEACON LIGHT
RA54F22
RA53C22
RA55A22N
29W5J1
2
RA54E22
RA53B22
ATTITUDE NAVIGATION INDICATOR ID882/ASN REF DESIG PREFIX 7A2 (COCKPIT)
J1
7W3P1
3
GS POINTER INPUT (+DOWN)
GS POINTER INPUT (+UP)
GS FLAG (-)
GS FLAG (+)
RA41B22
RA43B22
RA50B22
RA48B22
RADIO SET CONTROL C-6873B/ARN-82 REF DESIG PREFIX 8A1 (COCKPIT)
8W1P1
5
TEST ENERGIZE
SWITCHED +28V DC
A 0.10 MHZ
B 0.10 MHZ
C 0.10 MHZ
D 0.10 MHZ
E 0.10 MHZ
B 1.00 MHZ
C 0.01 MHZ
E 0.10 MHZ
D 1.00 MHZ
A 1.00 MHZ
2 OUT OF 5 FREQUENCY SELECT WIRES (VOR/LOC/GS)
VOR/ILS SWITCHING
FREQUENCY SELECT COMMON
RN5293A22
R1963-31A20
RA6B22
RA5B22
RA4B22
RA3B22
RA2B22
RA10B22
RA9B22
RA8B22
RA7B22
RA18B22
RA23B22
R1963-13B22
P/O FORWARD JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29418 (FORWARD SECTION)
TB27
6
RA53B22
R1963-18A22
R1963-15B22
RA43C22
SHIELD OF RA43C22
RA54E22
R1963-21A22
R1963-25A22
R1963-25B22
R1963-25C22
R1963-18B22
R1 100 OHMS 1/2W
RA43D22
RA54D22
R1963-21B20
TB28
7
R1963-7A22
1963-8A22
R1963-9A22
R1963-10A22
R1963-11A22
R1963-20D20
R1963-20B22
R1963-27B22
R1963-6A22
R1963-12A22
R1963-4A22
R1963-5A22
R1963-3A22
BLACK MARKER
CR4 1N4003
RA6B22
RA5B22
RA4B22
RA3B22
RA2B22
RA23B22
RA10B22
RA9B22
RA8B22
RA7B22
RA18B22
8
NC
NO
NC-20
R1963-24A20N
R1963-18E22
R1963-20C22
R1963-26A20
R1963-20B22
R1963-27B22
ILS/AUTO PILOT INTERLOCK RELAY K1 FORWARD SECTION, LEFT HAND SIDE STATION 102 P/O 10K1 RELAY CABLE ASSEMBLY 10W6
TB29
9
R1963-13A22
RA41C22
R1963-14A22
CAPACITOR 250 UF 3 VOLTS REF DESIG PREFIX C4
RA41D22
RA43D22
R1963-19A22
SHIELD OF RA43C22
R1963-26A20
R1963-15A22
R1963-15B22
R1963-17A22
R1963-16A22
R1963-23A22
R1963-28A22 (RED)
R1963-29A22 (BLU)
R1963-13B22
RA41B22
RN5293C22
RA59B20N
RA23C22
RA43B22
RA50B22
RA48B22
RA26B22
RA47B22 (RED)
RA49B22 (BLU)
P

INFORMATION ON THIS SHEET PERTAINS TO AIRCRAFT INCORPORATING MWO55-1510-213-50-1.

EL2ZT362

FO-12. Glide slope and marker beacon facility (sheet 3 of 4).

THIS SHEET CONTAINS
STATIONS 10 THRU 17


P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A1
(FORWARD SECTION)
10
TB132
4(B)
RA49E22(BLU)
4(A)
RA56B22(RED)
GRD-20
P
6
7
C6533-43C20
C6533-24A22
GND-20
2C6533-24A22
GRD-20
C6533/ARC
P/O INTERIOR AND EXTERIOR LIGHTS PANEL ASSEMBLY
(FORWARD SECTION)
13
4(L)
L84B20
TB326
1
5V DC
LTS
BUS
17
P/O RADIO RECEIVER R-1388/ARN-82
MOUNTING MT-3600/ARN-82 ASSEMBLY
REF DESIG PREFIX 8A2
(FORWARD SECTION)
9(3)
RN5293C22
5(L)
RN5293A22
RN5293B22
8W1P2
J2
1
VOR/COMM
11
GUIDE SLOPE/MARKER BEACON RECEIVER R-1963/ARN
REF DESIG PREFIX 10A5
P/O 10W7P1
P/O J1
7(6) R1963-20D20
16(CB79-2) R1963-20A20
5-20
7(1) R1963-7A22
7(2) R1963-8A22
7(3) R1963-9A22
7(4) R1963-10A22
7(5) R1963-11A22
7(7) R1963-6A22
7(8) R1963-12A22
7(9) R1963-4A22
7(10) R1963-5A22
7(11) R1963-3A22
6(9) R1963-18A22
9(1) R1963-13A22
9(2) R1963-14A22
9(3) R1963-19A22
9(6) R1963-15A22
9(7) R1963-17A22
9(8) R1963-16A22
9(9) R1963-23A22
9(10) R1963-28A22(RED)
9(11) R1963-29A22(BLU)
P
R1963-22A20N
6(7) R1963-25C22
6(7) R1963-25B22
6(12) R1963-21A22
6(7) R1963-25A22
5 SWITCHED +28V DC
13 A 0.10 MHZ
31 B 0.10 MHZ
14 C 0.10 MHZ
32 D 0.10 MHZ
15 E 0.10 MHZ
30 E 1.00 MHZ
33 C 0.01 MHZ
29 B 1.00 MHZ
12 D 1.00 MHZ
11 A 1.00 MHZ
2 OUT OF 5 FREQUENCY SELECT WIRES (VOR/LOC/GS)
10 VOR/ILS SWITCHING
28 FREQUENCY SELECT COMMON
34 GLIDE SLOPE DEVIATION (+) DOWN
4 MARKER TEST
23 (RESERVED) MARKER TEST RETURN (GRD)
16 GLIDE SLOPE DEVIATION (+) UP
35 GLIDE SLOPE ALARM FLAG (-)
17 GLIDE SLOPE ALARM FLAG (+)
6 MARKER LAMP OUTPUT (+28V DC)
7 MARKER AUDIO HI
8 MARKER AUDIO LO
2 MARKER AUDIO COMMON
19 AUDIO SHIELD GRD
27 AIRCRAFT GRD
21 MARKER LAMP 3000 HZ
20 MARKER LAMP 1300 HZ
1 HI/LO SENSITIVITY (GRD FOR HI)
18 HI/LO SENSITIVITY RETURN GRD
3 MARKER LAMP 400 HZ
P/O. J1
P/O 10W7P1
SPARE
9
22
24
25
26
36
37
MOUNTING MT-4835/ARN
(FORWARD SECTION)
12
J3
10W3P3
RA28A
(10W3P2)1
J2
10W4P2
RA29A
10W4P1
MARKER
BEACON
ANTENNA
REF DESIG
PREFIX 10A4
(AFT SECTION BOTTOM)
P/O AUTOPILOT JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A6
(MID SECTION)
14
9(5)
RA23C22
TB143
16
8
C89A20
C89B20
C89C20
C80CC20
C80EE20
C80MM20
C80DD20
AN/ASW-12(V)2
15
TB144
9(2)
RA41C22
6(13)
RA43C22
5
6
C85A22
C80CC20
C96A22
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL
REF DESIG PREFIX 29A19
(AFT SECTION)
16
MB/GS
CB79
2A
2
1
11(5)
R1963-20A20
5(T)
R1963-31A20
EL2ZT363

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   KY28 16 C 22 N

   FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO, AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

   24 (8B)

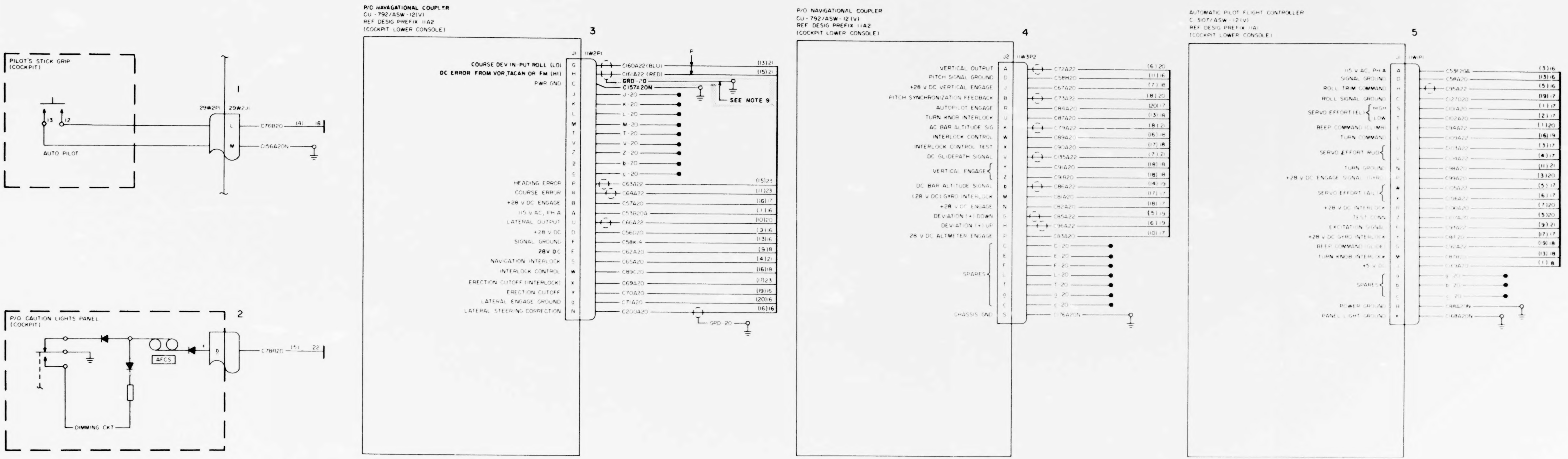
   BASE LINE — LOCATION — PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. — — — SHOWN FOR REF ONLY.
6. INDICATES DOUBLE SHIELDED COAXIAL CABLE.
7. INDICATES SHIELD CONNECTION.

INFORMATION ON THIS SHEET PERTAINS TO AIRCRAFT INCORPORATING MWO 55-1510-213-50-1

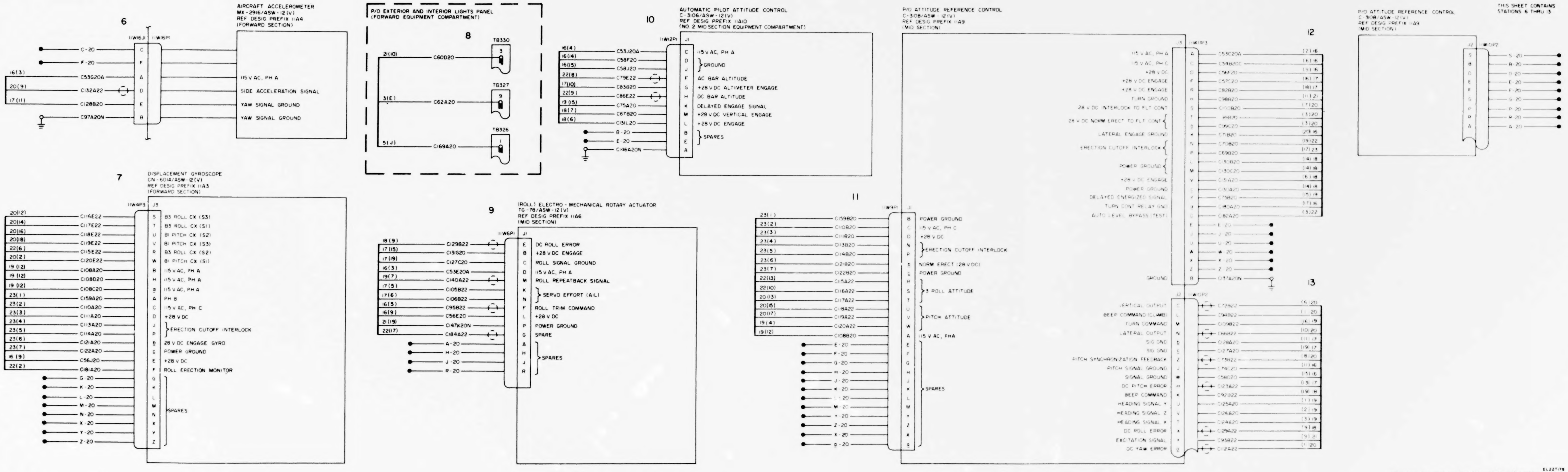
FO-12. Glide slope and marker beacon facility (sheet 4 of 4).

THIS SHEET CONTAINS
STATIONS 1 THRU 5


PILOT'S STICK GRIP (COCKPIT)
13
12
AUTO PILOT
1
29W2P1
29W2J1
L
M
C76B20
(4) 18
C156A20N
P/O CAUTION LIGHTS PANEL (COCKPIT)
2
AFCS
DIMMING CKT
b
C78B20
(5) 22
P/O NAVAGATIONAL COUPLER
CU-792/ASW-12(V)
REF DESIG PREFIX 11A2
(COCKPIT LOWER CONSOLE)
3
J1
11W2P1
COURSE DEV IN-PUT ROLL (LO) G C160A22(BLU) (13)21
DC ERROR FROM VOR,TACAN OR FM (HI) H C161A22 (RED) (15)21
P
PWR GND C GRD-20 C157A20N
SEE NOTE 9
J J-20
K K-20
L L-20
M M-20
T T-20
V V-20
Z Z-20
b b-20
c c-20
HEADING ERROR P C63A22 (15)23
COURSE ERROR R C64A22 (11)23
+28 V DC ENGAGE B C57A20 (16)17
115 V AC, PH A A C53B20A (1)16
LATERAL OUTPUT U C66A22 (10)20
+28 V DC D C56D20 (3)16
SIGNAL GROUND F C58K4 (13)16
28V DC F C62A20 (9)8
NAVIGATION INTERLOCK S C65A20 (4)21
INTERLOCK CONTROL W C89C20 (16)18
ERECTION CUTOFF (INTERLOCK) X C69A20 (17)23
ERECTION CUTOFF Y C70A20 (19)16
LATERAL ENGAGE GROUND a C71A20 (20)16
LATERAL STEERING CORRECTION N C200A20 (16)16
GRD-20
P/O NAVIGATIONAL COUPLER
CU-792/ASW-12(V)
REF DESIG PREFIX 11A2
(COCKPIT LOWER CONSOLE)
4
J2
11W3P2
VERTICAL OUTPUT A C72A22 (6)20
PITCH SIGNAL GROUND D C58H20 (11)16
+28 V DC VERTICAL ENGAGE J C67A20 (7)18
PITCH SYNCHRONIZATION FEEDBACK B C73A22 (8)20
AUTOPILOT ENGAGE R C84A20 (20)17
TURN KNOB INTERLOCK U C87A20 (13)18
AC BAR ALTITUDE SIG K C79A22 (8)21
INTERLOCK CONTROL W C89A20 (16)18
INTERLOCK CONTROL TEST X C90A20 (17)18
DC GLIDEPATH SIGNAL V C135A22 (7)21
VERTICAL ENGAGE Y C91A20 (18)18
Z C91B20 (18)18
DC BAR ALTITUDE SIGNAL b C86A22 (14)19
(28 V DC) GYRO INTERLOCK M C81A20 (17)17
+28 V DC ENGAGE N C82A20 (18)17
DEVIATION (+) DOWN G C85A22 (5)19
DEVIATION (+) UP H C96A22 (6)19
28 V DC ALTMETER ENGAGE P C83A20 (10)17
SPARES
C C-20
E E-20
F F-20
L L-20
T T-20
a a-20
c c-20
CHASSIS GND S C176A20N
AUTOMATIC PILOT FLIGHT CONTROLLER
C-3107/ASW-12(V)
REF DESIG PREFIX 11A1
(COCKPIT LOWER CONSOLE)
5
J1
11W1P1
115 V AC, PH A A C53F20A (3)16
SIGNAL GROUND D C58A20 (13)16
ROLL TRIM COMMAND H C95A22 (5)16
ROLL SIGNAL GROUND C C127D20 (19)17
SERVO EFFORT (EL) HIGH S C101A20 (1)17
LOW T C102A20 (2)17
BEEP COMMAND (CLIMB) E C94A22 (1)20
TURN COMMAND L C109A22 (16)19
SERVO EFFORT RUD U C103A22 (3)17
V C104A22 (4)17
TURN GROUND N C98A20 (11)21
+28 V DC ENGAGE SIGNAL (GYRO) P C99A20 (3)20
SERVO EFFORT (AIL) A C105A22 (5)17
X C106A22 (6)17
+28 V DC INTERLOCK R C100A20 (7)20
TEST CONN Z (5)20
EXCITATION SIGNAL F C93A22 (9)21
+28 V DC GYRO INTERLOCK Y (17)17
BEEP COMMAND (GLIDE) G C92A22 (19)18
TURN KNOB INTERLOCK M (13)18
+5 V DC J C163A20 (1)8
SPARES
a a-20
b b-20
c c-20
POWER GROUND B C88A20N
PANEL LIGHT GROUND C168A20N

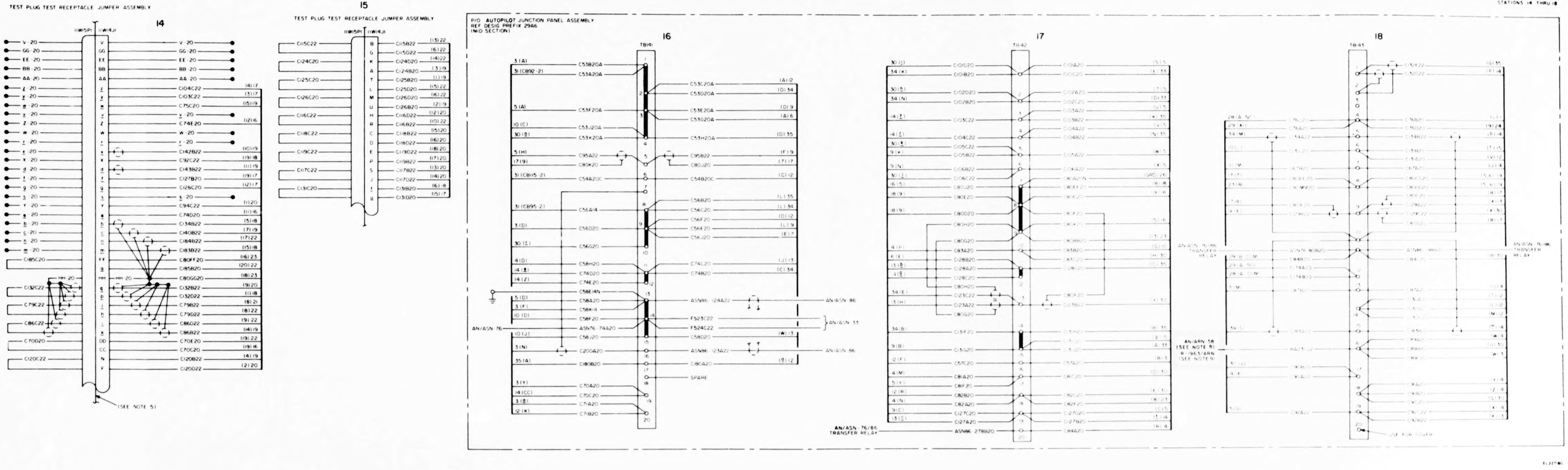
EL2ZT178

FO-13. Autopilot facility wiring diagram (sheet 1 of 6)


THIS SHEET CONTAINS STATIONS 6 THRU 13
6
AIRCRAFT ACCELEROMETER
MX-2916/ASW-12(V)
REF DESIG PREFIX 11A4
(FORWARD SECTION)
11W16J1
11W16P1
C-20
F-20
16(3)
C53G20A
20(9)
C132A22
17(11)
C128B20
C97A20N
C
F
A
D
E
B
115 V AC, PH A
SIDE ACCELERATION SIGNAL
YAW SIGNAL GROUND
YAW SIGNAL GROUND
8
P/O EXTERIOR AND INTERIOR LIGHTS PANEL
(FORWARD EQUIPMENT COMPARTMENT)
21(10)
C60D20
TB330
3
3(E)
C62A20
TB327
9
5(J)
C169A20
TB326
1
10
AUTOMATIC PILOT ATTITUDE CONTROL
C-3106/ASW-12(V)
REF DESIG PREFIX 11A10
(NO. 2 MID SECTION EQUIPMENT COMPARTMENT)
11W12P1
J1
16(4)
C53J20A
C
115 V AC, PH A
16(14)
C58F20
D
16(15)
C58J20
J
GROUND
22(8)
C79E22
F
AC BAR ALTITUDE
17(10)
C83B20
G
+28 V DC ALTIMETER ENGAGE
22(9)
C86E22
H
DC BAR ALTITUDE
19(15)
C75A20
K
DELAYED ENGAGE SIGNAL
18(7)
C67B20
M
+28 V DC VERTICAL ENGAGE
18(6)
C131L20
L
+28 V DC ENGAGE
B-20
B
E-20
E
SPARES
C146A20N
A
7
DISPLACEMENT GYROSCOPE
CN-601A/ASW-12(V)
REF DESIG PREFIX 11A3
(FORWARD SECTION)
11W4P3
J3
20(12)
C116E22
S
B3 ROLL CX (S3)
20(14)
C117E22
T
B3 ROLL CX (S1)
20(16)
C118E22
U
B1 PITCH CX (S2)
20(18)
C119E22
V
B1 PITCH CX (S3)
22(6)
C115E22
R
B3 ROLL CX (S2)
20(2)
C120E22
W
B1 PITCH CX (S1)
19(12)
C108A20
B
115 V AC, PH A
19(12)
C108D20
H
115 V AC, PH A
19(12)
C108C20
a
115 V AC, PH A
23(1)
C159A20
A
PH B
23(2)
C110A20
C
115 V AC, PH C
23(3)
C111A20
D
+28 V DC
23(4)
C113A20
J
23(5)
C114A20
P
ERECTION CUTOFF INTERLOCK
23(6)
C121A20
b
28 V DC ENGAGE GYRO
23(7)
C122A20
c
POWER GROUND
16(9)
C56J20
E
+28 V DC
22(2)
C181A20
F
ROLL ERECTION MONITOR
G-20
K-20
L-20
M-20
N-20
X-20
Y-20
Z-20
G
K
L
M
N
X
Y
Z
SPARES
9
(ROLL) ELECTRO-MECHANICAL ROTARY ACTUATOR
TG-78/ASW-12(V)
REF DESIG PREFIX 11A6
(MID SECTION)
11W6P1
J1
18(9)
C129B22
E
DC ROLL ERROR
17(15)
C131G20
B
+28 V DC ENGAGE
17(19)
C127C20
C
ROLL SIGNAL GROUND
16(3)
C53E20A
D
115 V AC, PH A
19(7)
C140A22
M
ROLL REPEATBACK SIGNAL
17(5)
C105B22
K
17(6)
C106B22
N
SERVO EFFORT (AIL)
16(5)
C95B22
F
ROLL TRIM COMMAND
16(9)
C56E20
L
+28 V DC
21(19)
C147K20N
P
POWER GROUND
22(17)
C184A22
G
SPARE
A-20
H-20
J-20
R-20
A
H
J
R
SPARES
11
11W9P1
J1
23(1)
C159B20
B
POWER GROUND
23(2)
C110B20
C
115 V AC, PH C
23(3)
C111B20
D
+28 V DC
23(4)
C113B20
N
23(5)
C114B20
P
ERECTION CUTOFF INTERLOCK
23(6)
C121B20
b
NORM ERECT (28 V DC)
23(7)
C122B20
c
POWER GROUND
22(13)
C115A22
R
22(10)
C116A22
S
20(13)
C117A22
T
3 ROLL ATTITUDE
20(15)
C118A22
U
20(17)
C119A22
V
19(4)
C120A22
W
PITCH ATTITUDE
19(12)
C108B20
A
115 V AC, PHA
E-20
F-20
G-20
H-20
J-20
K-20
L-20
M-20
Y-20
Z-20
X-20
a-20
E
F
G
H
J
K
L
M
Y
Z
X
a
SPARES
P/O ATTITUDE REFERENCE CONTROL
C-3108/ASW-12(V)
REF DESIG PREFIX 11A9
(MID SECTION)
12
J3
11W11P3
115 V AC, PH A
A
C53C20A
(2) 16
115 V AC, PH C
C
C54B20C
(6) 16
+28 V DC
D
C56F20
(9) 16
+28 V DC ENGAGE
F
C57C20
(16) 17
+28 V DC ENGAGE
R
C82B20
(18) 17
TURN GROUND
H
C98B20
(11) 21
28 V DC INTERLOCK TO FLT CONT
S
C100B20
(7) 20
28 V DC NORM ERECT TO FLT CONT
T
C99B20
(3) 20
b
C99C20
(3) 20
LATERAL ENGAGE GROUND
K
C71B20
(20) 16
ERECTION CUTOFF INTERLOCK
N
C70B20
(19) 22
P
C69B20
(17) 23
POWER GROUND
L
C130B20
(14) 18
M
C130C20
(14) 18
+28 V DC ENGAGE
V
C131A20
(6) 18
POWER GROUND
c
C130A20
(14) 18
DELAYED ENERGIZED SIGNAL
Y
C75B20
(5) 19
TURN CONT RELAY GND
a
C180A20
(17) 16
AUTO LEVEL BYPASS (TEST)
G
C182A20
(3) 22
E
E-20
J
J-20
U
U-20
W
W-20
X
X-20
Z
Z-20
GROUND
B
C137A20N
13
J2
11W10P2
VERTICAL OUTPUT
C
C72B22
(6) 20
BEEP COMMAND (CLIMB)
L
C94B22
(1) 20
TURN COMMAND
M
C109B22
(16) 19
LATERAL OUTPUT
N
C66B22
(10) 20
SIG GND
b
C128A20
(11) 17
SIG GND
c
C127A20
(19) 17
PITCH SYNCHRONIZATION FEEDBACK
Z
C73B22
(8) 20
PITCH SIGNAL GROUND
J
C74C20
(11) 16
SIGNAL GROUND
W
C58D20
(15) 16
DC PITCH ERROR
H
C123A22
(13) 17
BEEP COMMAND
K
C92B22
(19) 18
HEADING SIGNAL Y
U
C125A20
(1) 19
HEADING SIGNAL Z
V
C126A20
(2) 19
HEADING SIGNAL X
T
C124A20
(3) 19
DC ROLL ERROR
X
C129A22
(9) 18
EXCITATION SIGNAL
Y
C93B22
(9) 21
DC YAW ERROR
a
C112A22
(1) 20
P/O ATTITUDE REFERENCE CONTROL
C-3108/ASW-12(V)
REF DESIG PREFIX 11A9
(MID SECTION)
J2
11W10P2
S
B
D
E
F
G
P
R
A
S-20
B-20
D-20
E-20
F-20
G-20
P-20
R-20
A-20
EL2ZT179

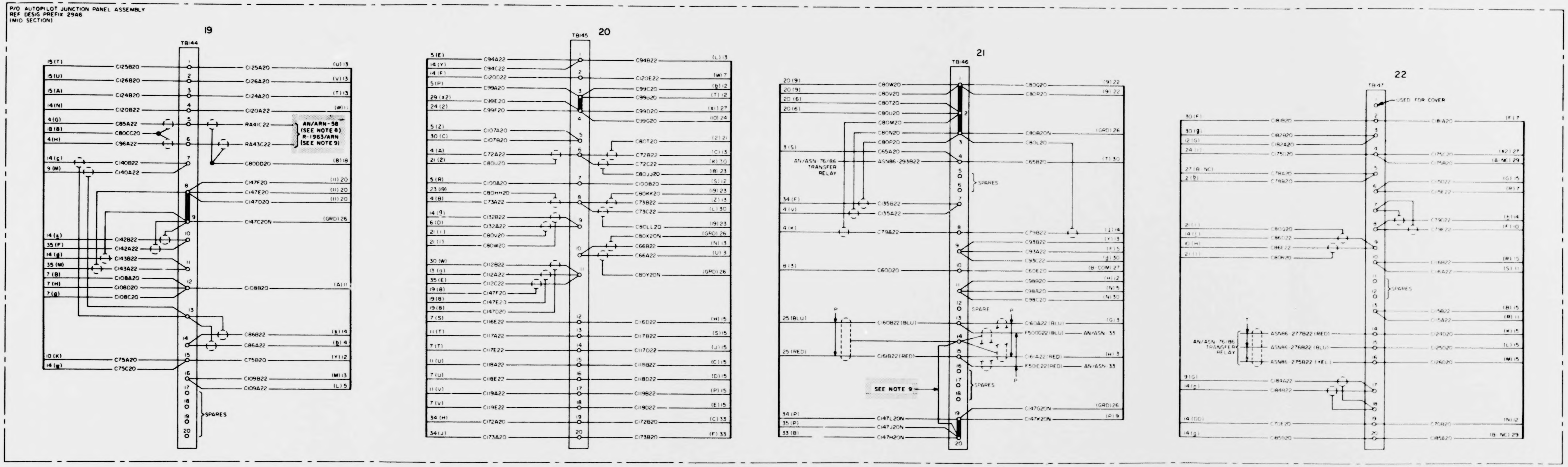
FO-13. Autopilot facility wiring diagram (sheet 2 of 6).

THIS SHEET CONTAINS STATIONS 14 THRU 18


TEST PLUG TEST RECEPTACLE JUMPER ASSEMBLY
14
11W15P1
11W14J1
(SEE NOTE 5)
15
TEST PLUG TEST RECEPTACLE JUMPER ASSEMBLY
P/O AUTOPILOT JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A6
(MID SECTION)
16
TB41
AN/ASN-76
AN/ASN-86
AN/ASN-33
SPARE
17
TB42
AN/ASN-76/86
TRANSFER RELAY
18
TB43
AN/ASN-76/86
TRANSFER
RELAY
AN/ARN-58
(SEE NOTE 8)
R-1963/ARN
(SEE NOTE 9)
USE FOR COVER

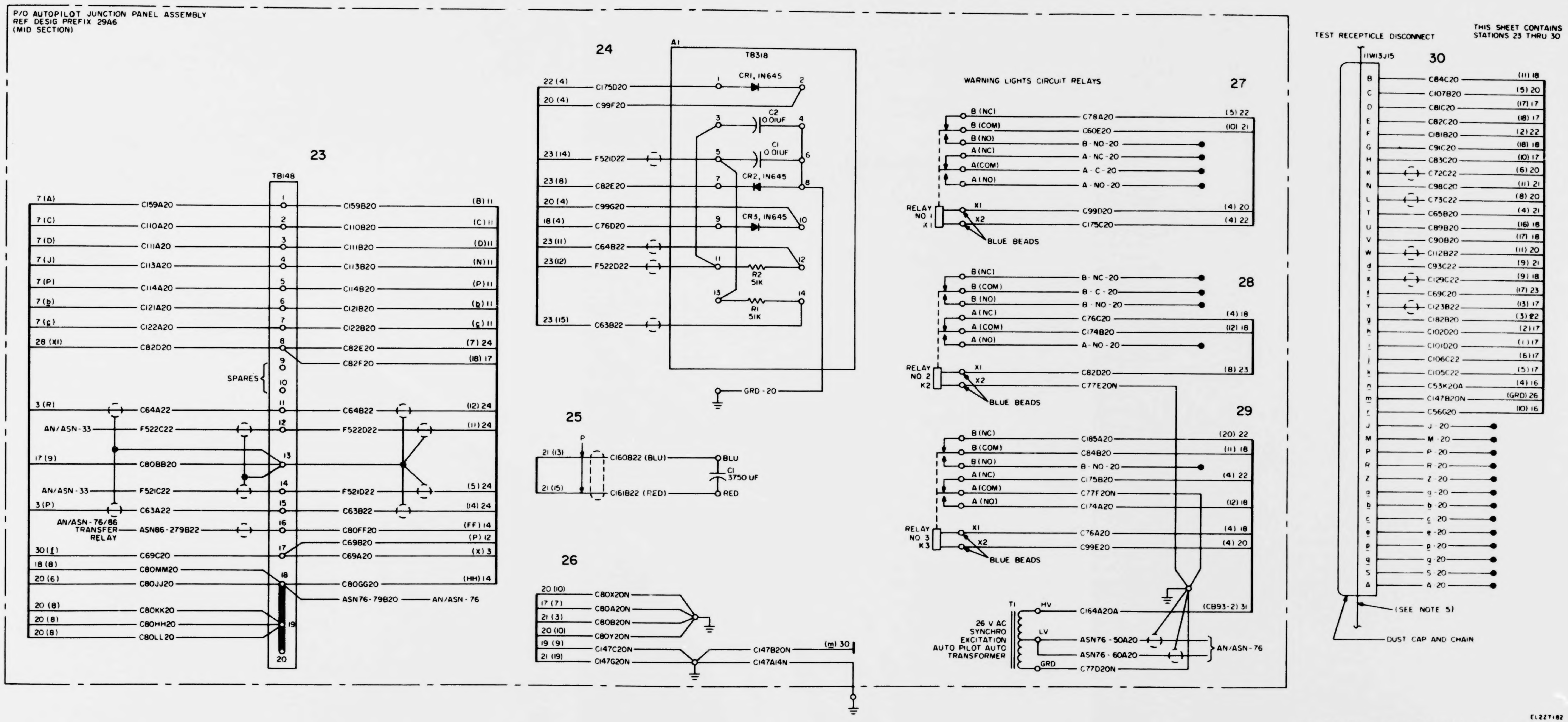
FO-13 Autopilot facility wiring diagram (sheet 3 of 6)

THIS SHEET CONTAINS
STATIONS 19 THRU 22


P/O AUTOPILOT JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A6
(MID SECTION)
19
TB144
AN/ARN-58 (SEE NOTE 8)
R-1963/ARN (SEE NOTE 9)
SPARES
20
TB145
21
TB146
AN/ASN-76/86 TRANSFER RELAY
SPARES
SPARE
SEE NOTE 9
AN/ASN-33
22
TB147
USED FOR COVER
SPARES
AN/ASN-76/86 TRANSFER RELAY

FI.22T(6)

FO-13. Autopilot facility wiring diagram (sheet 4 of 6).

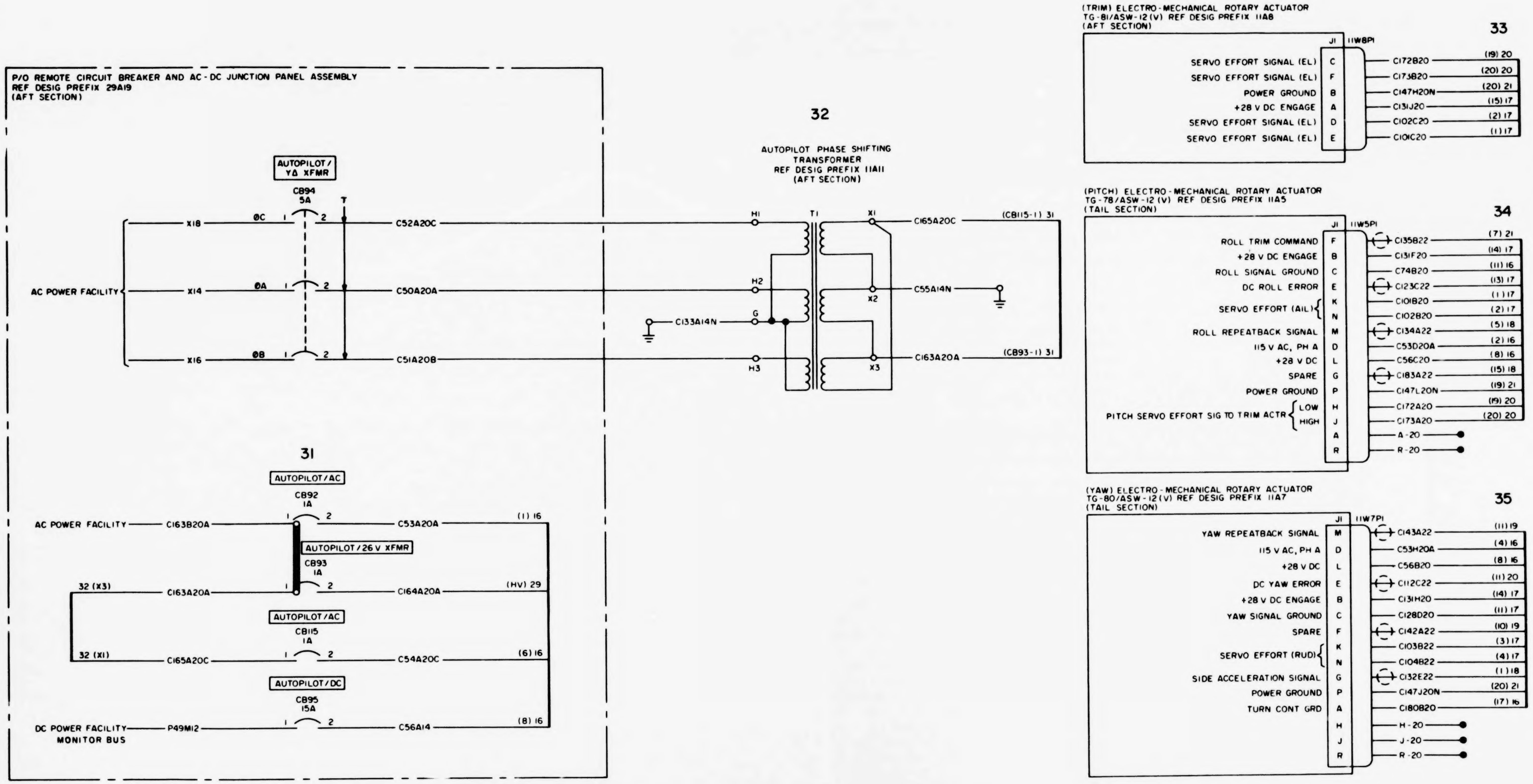


P/O AUTOPILOT JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A6
(MID SECTION)
THIS SHEET CONTAINS STATIONS 23 THRU 30
23
TB148
7 (A) C159A20 1 C159B20 (B) 11
7 (C) C110A20 2 C110B20 (C) 11
7 (D) C111A20 3 C111B20 (D) 11
7 (J) C113A20 4 C113B20 (N) 11
7 (P) C114A20 5 C114B20 (P) 11
7 (b) C121A20 6 C121B20 (b) 11
7 (c) C122A20 7 C122B20 (c) 11
28 (X1) C82D20 8 C82E20 (7) 24
C82F20 (18) 17
SPARES 9 10
3 (R) C64A22 11 C64B22 (12) 24
AN/ASN-33 F522C22 12 F522D22 (11) 24
17 (9) C80BB20 13
AN/ASN-33 F521C22 14 F521D22 (5) 24
3 (P) C63A22 15 C63B22 (14) 24
AN/ASN-76/86 TRANSFER RELAY ASN86-279B22 16 C80FF20 (FF) 14
C69B20 (P) 12
30 (f) C69C20 17 C69A20 (X) 3
18 (8) C80MM20
20 (6) C80JJ20 18 C80GG20 (HH) 14
ASN76-79B20 AN/ASN-76
20 (8) C80KK20
20 (8) C80HH20 19
20 (8) C80LL20
20
24
A1
TB318
22 (4) C175D20 1 CR1, IN645 2
20 (4) C99F20
3 C2 0.01UF 4
23 (14) F521D22 5 C1 0.01UF 6
23 (8) C82E20 7 CR2, IN645 8
20 (4) C99G20
18 (4) C76D20 9 CR3, IN645 10
23 (11) C64B22 11 12
23 (12) F522D22 R2 51K
13 R1 51K 14
23 (15) C63B22
GRD-20
25
P
21 (13) C160B22 (BLU) BLU
C1 3750 UF
21 (15) C161B22 (RED) RED
26
20 (10) C80X20N
17 (7) C80A20N
21 (3) C80B20N
20 (10) C80Y20N
19 (9) C147C20N C147B20N (m) 30
21 (19) C147G20N C147A14N
WARNING LIGHTS CIRCUIT RELAYS
27
B (NC) C78A20 (5) 22
B (COM) C60E20 (10) 21
B (NO) B-NO-20
A (NC) A-NC-20
A (COM) A-C-20
A (NO) A-NO-20
RELAY NO 1 K1
X1 C99D20 (4) 20
X2 C175C20 (4) 22
BLUE BEADS
28
B (NC) B-NC-20
B (COM) B-C-20
B (NO) B-NO-20
A (NC) C76C20 (4) 18
A (COM) C174B20 (12) 18
A (NO) A-NO-20
RELAY NO 2 K2
X1 C82D20 (8) 23
X2 C77E20N
BLUE BEADS
29
B (NC) C185A20 (20) 22
B (COM) C84B20 (11) 18
B (NO) B-NO-20
A (NC) C175B20 (4) 22
A (COM) C77F20N
A (NO) C174A20 (12) 18
RELAY NO 3 K3
X1 C76A20 (4) 18
X2 C99E20 (4) 20
BLUE BEADS
T1
26 V AC SYNCHRO EXCITATION AUTO PILOT AUTO TRANSFORMER
HV C164A20A (CB93-2) 31
LV ASN76-50A20
ASN76-60A20
AN/ASN-76
GRD C77D20N
TEST RECEPTICLE DISCONNECT
11W13J15
30
B C84C20 (11) 18
C C107B20 (5) 20
D C81C20 (17) 17
E C82C20 (18) 17
F C181B20 (2) 22
G C91C20 (18) 18
H C83C20 (10) 17
K C72C22 (6) 20
N C98C20 (11) 21
L C73C22 (8) 20
T C65B20 (4) 21
U C89B20 (16) 18
V C90B20 (17) 18
W C112B22 (11) 20
d C93C22 (9) 21
x C129C22 (9) 18
f C69C20 (17) 23
y C123B22 (13) 17
g C182B20 (3) 22
h C102D20 (2) 17
i C101D20 (1) 17
j C106C22 (6) 17
k C105C22 (5) 17
n C53K20A (4) 16
m C147B20N (GRD) 26
r C56G20 (10) 16
J J-20
M M-20
P P-20
R R-20
Z Z-20
a a-20
b b-20
c c-20
e e-20
p p-20
q q-20
S S-20
A A-20
(SEE NOTE 5)
DUST CAP AND CHAIN

EL22T182

FO-13. *Autopilot facility wiring diagram (sheet 5 of 6).*

THIS SHEET CONTAINS
STATIONS 31 THRU 35


P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
AUTOPILOT/ YΔ XFMR
CB94
5A
T
AC POWER FACILITY
X18
ØC
1
2
C52A20C
X14
ØA
C50A20A
X16
ØB
C51A20B
31
AUTOPILOT/AC
CB92
1A
AC POWER FACILITY
C163B20A
C53A20A
(1) 16
AUTOPILOT/26 V XFMR
CB93
1A
32 (X3)
C163A20A
C164A20A
(HV) 29
AUTOPILOT/AC
CB115
1A
32 (X1)
C165A20C
C54A20C
(6) 16
AUTOPILOT/DC
CB95
15A
DC POWER FACILITY MONITOR BUS
P49M12
C56A14
(8) 16
32
AUTOPILOT PHASE SHIFTING TRANSFORMER
REF DESIG PREFIX 11A11
(AFT SECTION)
H1
T1
X1
C165A20C
(CB115-1) 31
H2
X2
C55A14N
G
C133A14N
H3
X3
C163A20A
(CB93-1) 31
(TRIM) ELECTRO-MECHANICAL ROTARY ACTUATOR
TG-81/ASW-12(V) REF DESIG PREFIX 11A8
(AFT SECTION)
33
J1
11W8P1
SERVO EFFORT SIGNAL (EL) C C172B20 (19) 20
SERVO EFFORT SIGNAL (EL) F C173B20 (20) 20
POWER GROUND B C147H20N (20) 21
+28 V DC ENGAGE A C131J20 (15) 17
SERVO EFFORT SIGNAL (EL) D C102C20 (2) 17
SERVO EFFORT SIGNAL (EL) E C101C20 (1) 17
(PITCH) ELECTRO-MECHANICAL ROTARY ACTUATOR
TG-78/ASW-12(V) REF DESIG PREFIX 11A5
(TAIL SECTION)
34
J1
11W5P1
ROLL TRIM COMMAND F C135B22 (7) 21
+28 V DC ENGAGE B C131F20 (14) 17
ROLL SIGNAL GROUND C C74B20 (11) 16
DC ROLL ERROR E C123C22 (13) 17
SERVO EFFORT (AIL) K C101B20 (1) 17
N C102B20 (2) 17
ROLL REPEATBACK SIGNAL M C134A22 (5) 18
115 V AC, PH A D C53D20A (2) 16
+28 V DC L C56C20 (8) 16
SPARE G C183A22 (15) 18
POWER GROUND P C147L20N (19) 21
PITCH SERVO EFFORT SIG TO TRIM ACTR LOW H C172A20 (19) 20
HIGH J C173A20 (20) 20
A A-20
R R-20
(YAW) ELECTRO-MECHANICAL ROTARY ACTUATOR
TG-80/ASW-12(V) REF DESIG PREFIX 11A7
(TAIL SECTION)
35
J1
11W7P1
YAW REPEATBACK SIGNAL M C143A22 (11) 19
115 V AC, PH A D C53H20A (4) 16
+28 V DC L C56B20 (8) 16
DC YAW ERROR E C112C22 (11) 20
+28 V DC ENGAGE B C131H20 (14) 17
YAW SIGNAL GROUND C C128D20 (11) 17
SPARE F C142A22 (10) 19
SERVO EFFORT (RUD) K C103B22 (3) 17
N C104B22 (4) 17
SIDE ACCELERATION SIGNAL G C132E22 (1) 18
POWER GROUND P C147J20N (20) 21
TURN CONT GRD A C180B20 (17) 16
H H-20
J J-20
R R-20

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   KY28 16 C 22 N

   FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

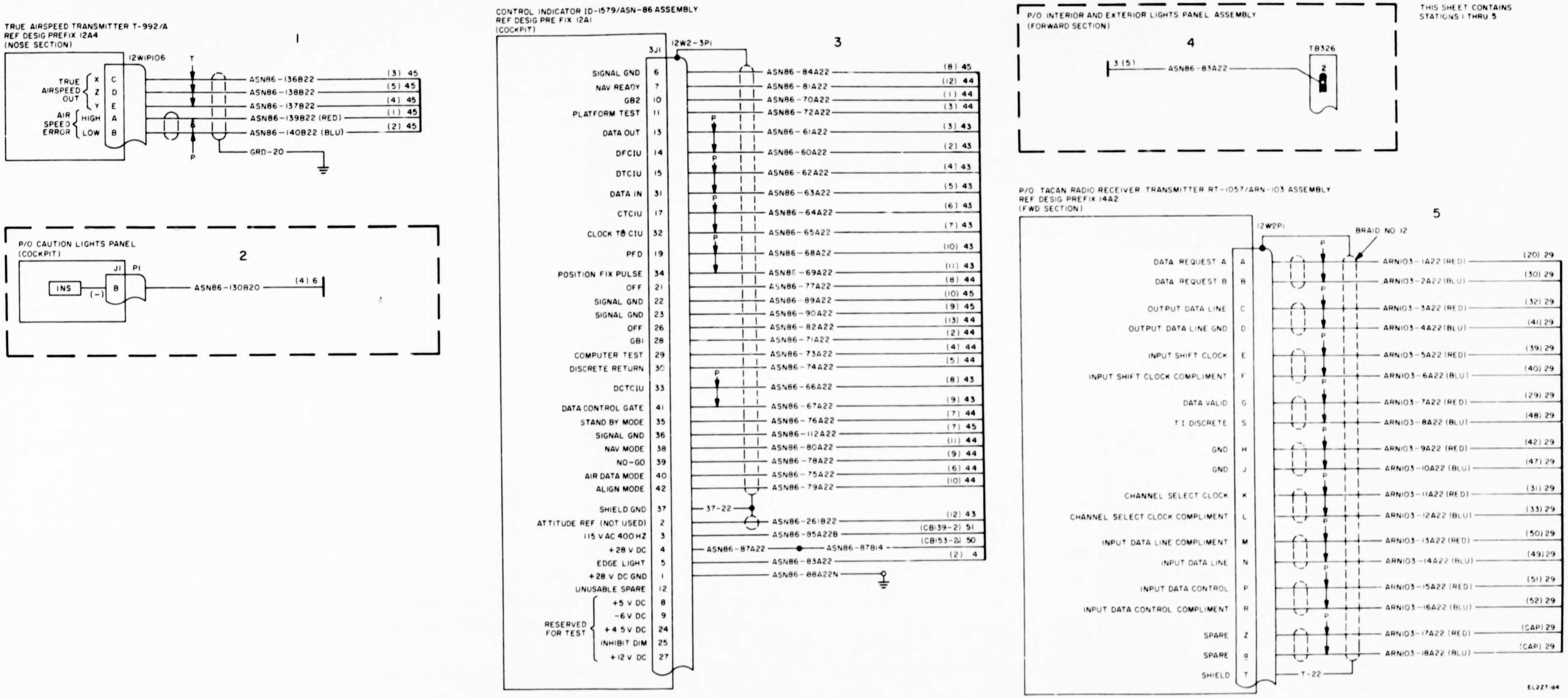
   24 (88)

   BASE LINE — LOCATION — PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ☐ INDICATES EQUIPMENT MARKINGS.
5. PART OF AUTOPILOT TEST RECEPTACLE BRACKET
6. — — — FOR REFERENCE ONLY
7. —⊖— INDICATES SHIELD CONNECTION
8. APPLIES BEFORE INCORPORATION OF MWO55-1510-213-50-1.
9. APPLIES AFTER INCORPORATION OF MWO55-1510-213-50-1.

EL22T183

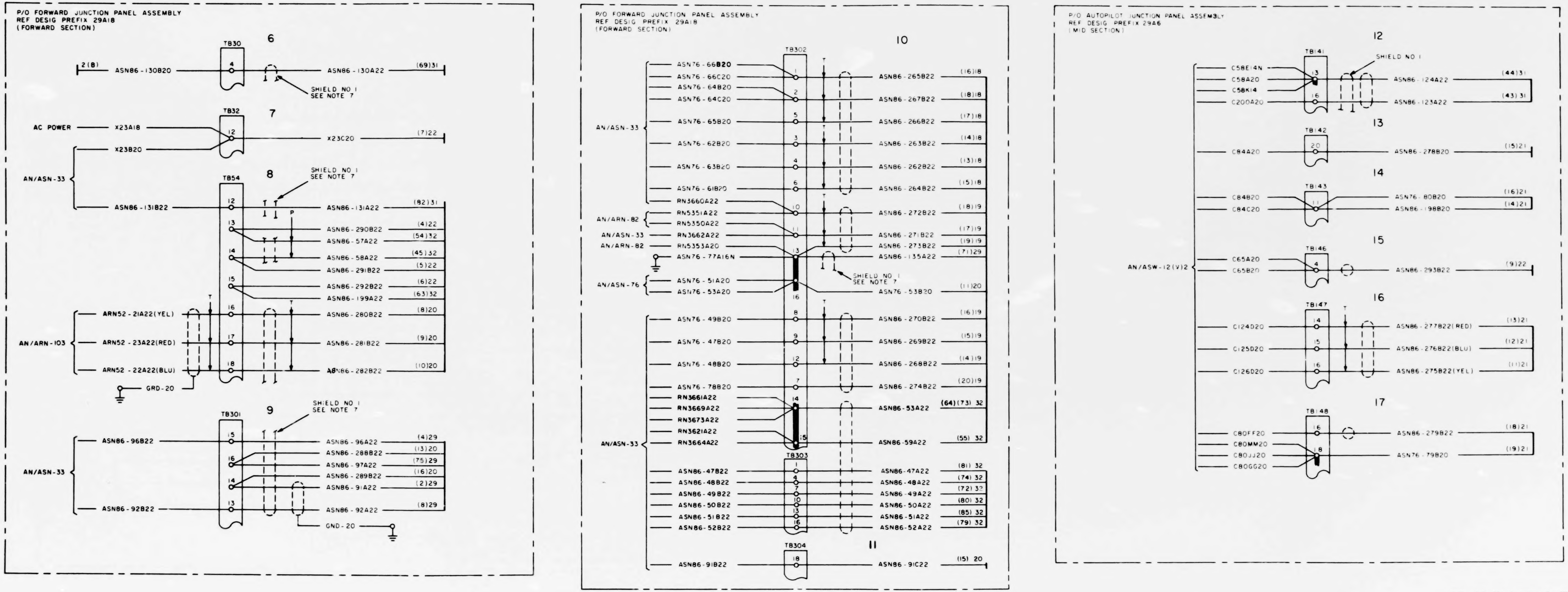
FO-13. Autopilot facility wiring diagram (sheet 6 of 6).


TRUE AIRSPEED TRANSMITTER T-992/A
REF DESIG PREFIX 12A4
(NOSE SECTION)
1
12W1P106
T
P
TRUE AIRSPEED OUT
X C ASN86-136B22 (3) 45
Z D ASN86-138B22 (5) 45
Y E ASN86-137B22 (4) 45
AIR SPEED ERROR
HIGH A ASN86-139B22 (RED) (1) 45
LOW B ASN86-140B22 (BLU) (2) 45
GRD-20
P/O CAUTION LIGHTS PANEL
(COCKPIT)
2
INS
(−)
J1
P1
B
ASN86-130B20 (4) 6
CONTROL INDICATOR ID-1579/ASN-86 ASSEMBLY
REF DESIG PRE FIX 12A1
(COCKPIT)
3
3J1
12W2-3P1
P
SIGNAL GND 6 ASN86-84A22 (8) 45
NAV READY 7 ASN86-81A22 (12) 44
GB2 10 ASN86-70A22 (1) 44
PLATFORM TEST 11 ASN86-72A22 (3) 44
DATA OUT 13 ASN86-61A22 (3) 43
DFCIU 14 ASN86-60A22 (2) 43
DTCIU 15 ASN86-62A22 (4) 43
DATA IN 31 ASN86-63A22 (5) 43
CTCIU 17 ASN86-64A22 (6) 43
CLOCK TØ CIU 32 ASN86-65A22 (7) 43
PFD 19 ASN86-68A22 (10) 43
POSITION FIX PULSE 34 ASN86-69A22 (11) 43
OFF 21 ASN86-77A22 (8) 44
SIGNAL GND 22 ASN86-89A22 (10) 45
SIGNAL GND 23 ASN86-90A22 (9) 45
OFF 26 ASN86-82A22 (13) 44
GB1 28 ASN86-71A22 (2) 44
COMPUTER TEST 29 ASN86-73A22 (4) 44
DISCRETE RETURN 30 ASN86-74A22 (5) 44
DCTCIU 33 ASN86-66A22 (8) 43
DATA CONTROL GATE 41 ASN86-67A22 (9) 43
STAND BY MODE 35 ASN86-76A22 (7) 44
SIGNAL GND 36 ASN86-112A22 (7) 45
NAV MODE 38 ASN86-80A22 (11) 44
NO-GO 39 ASN86-78A22 (9) 44
AIR DATA MODE 40 ASN86-75A22 (6) 44
ALIGN MODE 42 ASN86-79A22 (10) 44
SHIELD GND 37 37-22
ATTITUDE REF (NOT USED) 2 ASN86-261B22 (12) 43
115 V AC 400 HZ 3 ASN86-85A22B (CB139-2) 51
+28 V DC 4 ASN86-87A22 ASN86-87B14 (CB153-2) 50
EDGE LIGHT 5 ASN86-83A22 (2) 4
+28 V DC GND 1 ASN86-88A22N
UNUSABLE SPARE 12
RESERVED FOR TEST
+5 V DC 8
−6 V DC 9
+4.5 V DC 24
INHIBIT DIM 25
+12 V DC 27
P/O INTERIOR AND EXTERIOR LIGHTS PANEL ASSEMBLY
(FORWARD SECTION)
4
3 (5) ASN86-83A22
TB326
2
P/O TACAN RADIO RECEIVER TRANSMITTER RT-1057/ARN-103 ASSEMBLY
REF DESIG PREFIX 14A2
(FWD SECTION)
5
12W2P1
BRAID NO 12
P
DATA REQUEST A A ARN103-1A22 (RED) (20) 29
DATA REQUEST B B ARN103-2A22 (BLU) (30) 29
OUTPUT DATA LINE C ARN103-3A22 (RED) (32) 29
OUTPUT DATA LINE GND D ARN103-4A22 (BLU) (41) 29
INPUT SHIFT CLOCK E ARN103-5A22 (RED) (39) 29
INPUT SHIFT CLOCK COMPLIMENT F ARN103-6A22 (BLU) (40) 29
DATA VALID G ARN103-7A22 (RED) (29) 29
T I DISCRETE S ARN103-8A22 (BLU) (48) 29
GND H ARN103-9A22 (RED) (42) 29
GND J ARN103-10A22 (BLU) (47) 29
CHANNEL SELECT CLOCK K ARN103-11A22 (RED) (31) 29
CHANNEL SELECT CLOCK COMPLIMENT L ARN103-12A22 (BLU) (33) 29
INPUT DATA LINE COMPLIMENT M ARN103-13A22 (RED) (50) 29
INPUT DATA LINE N ARN103-14A22 (BLU) (49) 29
INPUT DATA CONTROL P ARN103-15A22 (RED) (51) 29
INPUT DATA CONTROL COMPLIMENT R ARN103-16A22 (BLU) (52) 29
SPARE Z ARN103-17A22 (RED) (CAP) 29
SPARE a ARN103-18A22 (BLU) (CAP) 29
SHIELD T T-22
EL22T184

THIS SHEET CONTAINS
STATIONS 1 THRU 5

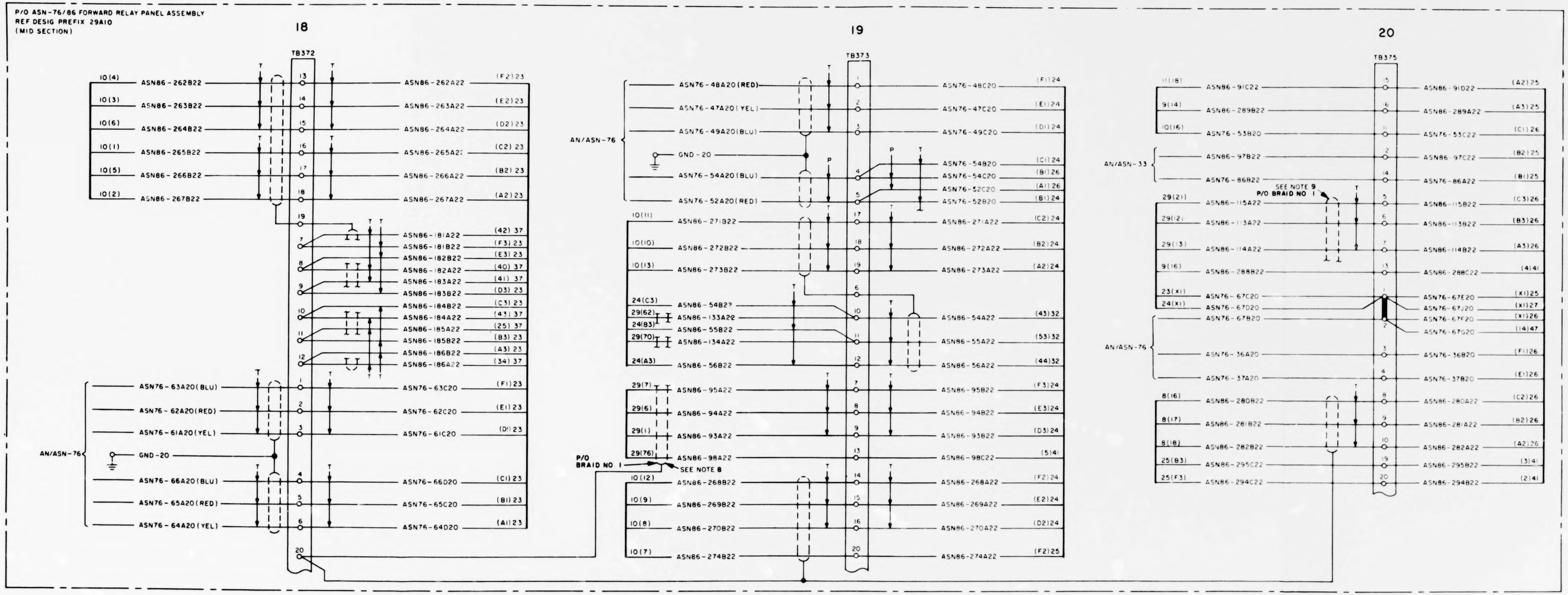
FO-14. Navigation facility wiring diagram (sheet 1 of 10).

THIS SHEET CONTAINS
STATIONS 6 THRU 17


P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
6
TB30
2(8)
ASN86-130B20
4
ASN86-130A22
(69)31
SHIELD NO 1
SEE NOTE 7
7
TB32
AC POWER
X23A18
X23B20
12
X23C20
(7)22
AN/ASN-33
8
TB54
ASN86-131B22
12
ASN86-131A22
(82)31
13
ASN86-290B22
(4)22
ASN86-57A22
(54)32
14
ASN86-58A22
(45)32
ASN86-291B22
(5)22
15
ASN86-292B22
(6)22
ASN86-199A22
(63)32
P
T
AN/ARN-103
ARN52-21A22(YEL)
16
ASN86-280B22
(8)20
ARN52-23A22(RED)
17
ASN86-281B22
(9)20
ARN52-22A22(BLU)
18
A8N86-282B22
(10)20
GRD-20
9
TB301
AN/ASN-33
ASN86-96B22
15
ASN86-96A22
(4)29
16
ASN86-288B22
(13)20
ASN86-97A22
(75)29
14
ASN86-289B22
(16)20
ASN86-91A22
(2)29
ASN86-92B22
13
ASN86-92A22
(8)29
GND-20
P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
10
TB302
AN/ASN-33
ASN76-66B20
ASN76-66C20
1
ASN86-265B22
(16)18
ASN76-64B20
ASN76-64C20
2
ASN86-267B22
(18)18
ASN76-65B20
5
ASN86-266B22
(17)18
ASN76-62B20
3
ASN86-263B22
(14)18
ASN76-63B20
4
ASN86-262B22
(13)18
ASN76-61B20
6
ASN86-264B22
(15)18
RN3660A22
10
ASN86-272B22
(18)19
AN/ARN-82
RN5351A22
RN5350A22
11
AN/ASN-33
RN3662A22
ASN86-271B22
(17)19
AN/ARN-82
RN5353A20
ASN86-273B22
(19)19
ASN76-77A16N
13
ASN86-135A22
(71)29
SHIELD NO 1
SEE NOTE 7
AN/ASN-76
ASN76-51A20
ASN76-53A20
16
ASN76-53B20
(11)20
ASN76-49B20
8
ASN86-270B22
(16)19
ASN76-47B20
9
ASN86-269B22
(15)19
ASN76-48B20
12
ASN86-268B22
(14)19
ASN76-78B20
7
ASN86-274B22
(20)19
RN3661A22
RN3669A22
14
ASN86-53A22
(64)(73) 32
RN3673A22
RN3621A22
AN/ASN-33
RN3664A22
15
ASN86-59A22
(55) 32
TB303
ASN86-47B22
1
ASN86-47A22
(81) 32
ASN86-48B22
4
ASN86-48A22
(74) 32
ASN86-49B22
7
ASN86-49A22
(72) 32
ASN86-50B22
10
ASN86-50A22
(80) 32
ASN86-51B22
13
ASN86-51A22
(85) 32
ASN86-52B22
16
ASN86-52A22
(79) 32
11
TB304
ASN86-91B22
18
ASN86-91C22
(15) 20
P/O AUTOPILOT JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A6
(MID SECTION)
12
TB141
SHIELD NO 1
C58E14N
C58A20
13
ASN86-124A22
(44)31
C58K14
C200A20
16
ASN86-123A22
(43) 31
13
TB142
C84A20
20
ASN86-278B20
(15)21
14
TB143
C84B20
ASN76-80B20
(16)21
C84C20
11
ASN86-198B20
(14)21
15
TB146
AN/ASW-12(V)2
C65A20
4
C65B20
ASN86-293B22
(9)22
16
TB147
C124D20
14
ASN86-277B22(RED)
(13)21
C125D20
15
ASN86-276B22(BLU)
(12)21
C126D20
16
ASN86-275B22(YEL)
(11)21
17
TB148
C80FF20
16
ASN86-279B22
(18)21
C80MM20
C80JJ20
18
ASN76-79B20
(19)21
C80GG20
EL22T185

FO-14. Navigation facility wiring diagram (sheet 2 of 10).

THIS SHEET CONTAINS
STATIONS 18 THRU 20


P/O ASN-76/86 FORWARD RELAY PANEL ASSEMBLY
REF DESIG PREFIX 29A10
(MID SECTION)
18
TB372
10(4) ASN86-262B22 ASN86-262A22 (F2)23
10(3) ASN86-263B22 ASN86-263A22 (E2)23
10(6) ASN86-264B22 ASN86-264A22 (D2)23
10(1) ASN86-265B22 ASN86-265A22 (C2)23
10(5) ASN86-266B22 ASN86-266A22 (B2)23
10(2) ASN86-267B22 ASN86-267A22 (A2)23
ASN86-181A22 (42)37
ASN86-181B22 (F3)23
ASN86-182B22 (E3)23
ASN86-182A22 (40)37
ASN86-183A22 (41)37
ASN86-183B22 (D3)23
ASN86-184B22 (C3)23
ASN86-184A22 (43)37
ASN86-185A22 (25)37
ASN86-185B22 (B3)23
ASN86-186B22 (A3)23
ASN86-186A22 (34)37
AN/ASN-76
ASN76-63A20(BLU) ASN76-63C20 (F1)23
ASN76-62A20(RED) ASN76-62C20 (E1)23
ASN76-61A20(YEL) ASN76-61C20 (D1)23
GND-20
ASN76-66A20(BLU) ASN76-66D20 (C1)23
ASN76-65A20(RED) ASN76-65C20 (B1)23
ASN76-64A20(YEL) ASN76-64D20 (A1)23
T
19
TB373
AN/ASN-76
ASN76-48A20(RED) ASN76-48C20 (F1)24
ASN76-47A20(YEL) ASN76-47C20 (E1)24
ASN76-49A20(BLU) ASN76-49C20 (D1)24
GND-20
ASN76-54B20 (C1)24
ASN76-54A20(BLU) ASN76-54C20 (B1)26
ASN76-52C20 (A1)26
ASN76-52A20(RED) ASN76-52B20 (B1)24
P
10(11) ASN86-271B22 ASN86-271A22 (C2)24
10(10) ASN86-272B22 ASN86-272A22 (B2)24
10(13) ASN86-273B22 ASN86-273A22 (A2)24
24(C3) ASN86-54B22
29(62) ASN86-133A22
24(B3) ASN86-55B22
29(70) ASN86-134A22
24(A3) ASN86-56B22
ASN86-54A22 (43)32
ASN86-55A22 (53)32
ASN86-56A22 (44)32
29(7) ASN86-95A22 ASN86-95B22 (F3)24
29(6) ASN86-94A22 ASN86-94B22 (E3)24
29(1) ASN86-93A22 ASN86-93B22 (D3)24
29(76) ASN86-98A22 ASN86-98C22 (5)41
P/O
BRAID NO 1
SEE NOTE 8
10(12) ASN86-268B22 ASN86-268A22 (F2)24
10(9) ASN86-269B22 ASN86-269A22 (E2)24
10(8) ASN86-270B22 ASN86-270A22 (D2)24
10(7) ASN86-274B22 ASN86-274A22 (F2)25
20
TB375
11(8) ASN86-91C22 ASN86-91D22 (A2)25
9(14) ASN86-289B22 ASN86-289A22 (A3)25
10(16) ASN76-53B20 ASN76-53C22 (C1)26
AN/ASN-33
ASN86-97B22 ASN86-97C22 (B2)25
ASN76-86B22 ASN76-86A22 (B1)25
SEE NOTE 9
P/O BRAID NO 1
29(21) ASN86-115A22 ASN86-115B22 (C3)26
29(2) ASN86-113A22 ASN86-113B22 (B3)26
29(13) ASN86-114A22 ASN86-114B22 (A3)26
9(16) ASN86-288B22 ASN86-288C22 (4)41
23(X1) ASN76-67C20 ASN76-67E20 (X1)25
24(X1) ASN76-67D20 ASN76-67J20 (X1)27
ASN76-67B20 ASN76-67F20 (X1)26
ASN76-67G20 (14)47
AN/ASN-76
ASN76-36A20 ASN76-36B20 (F1)26
ASN76-37A20 ASN76-37B20 (E1)26
8(16) ASN86-280B22 ASN86-280A22 (C2)26
8(17) ASN86-281B22 ASN86-281A22 (B2)26
8(18) ASN86-282B22 ASN86-282A22 (A2)26
25(B3) ASN86-295C22 ASN86-295B22 (3)41
25(F3) ASN86-294C22 ASN86-294B22 (2)41

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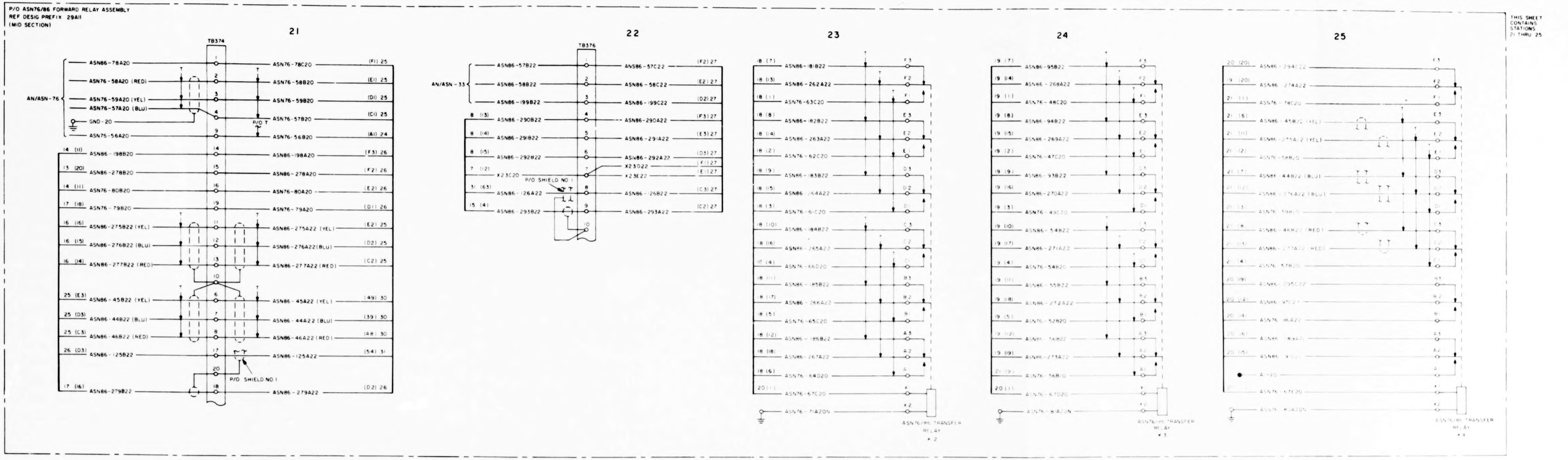
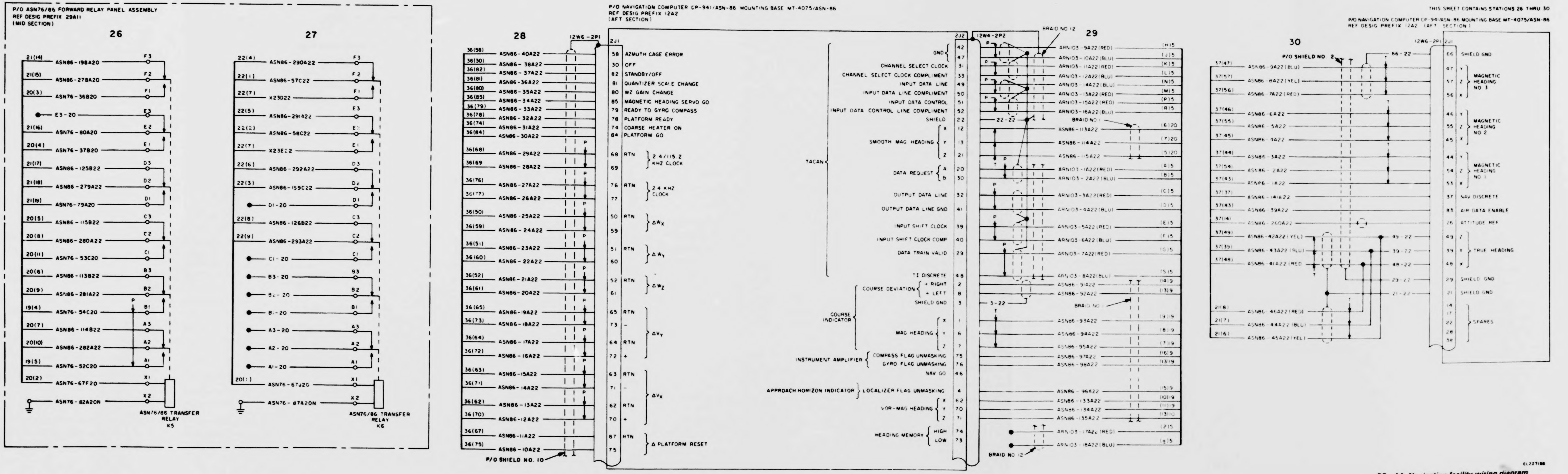
FO-14. *Navigation facility wiring diagram (sheet 3 of 10).*


P/O ASN76/86 FORWARD RELAY ASSEMBLY
REF DESIG PREFIX 29A11
(MID SECTION)
THIS SHEET CONTAINS STATIONS 21 THRU 25
21
22
23
24
25
TB374
TB376
AN/ASN-76
AN/ASN-33
P/O T
P/O SHIELD NO 1
ASN76/86 TRANSFER RELAY K2
ASN76/86 TRANSFER RELAY K3
ASN76/86 TRANSFER RELAY K4

EL2ZT187

FO-14. Navigation facility wiring diagram (sheet 4 of 10).

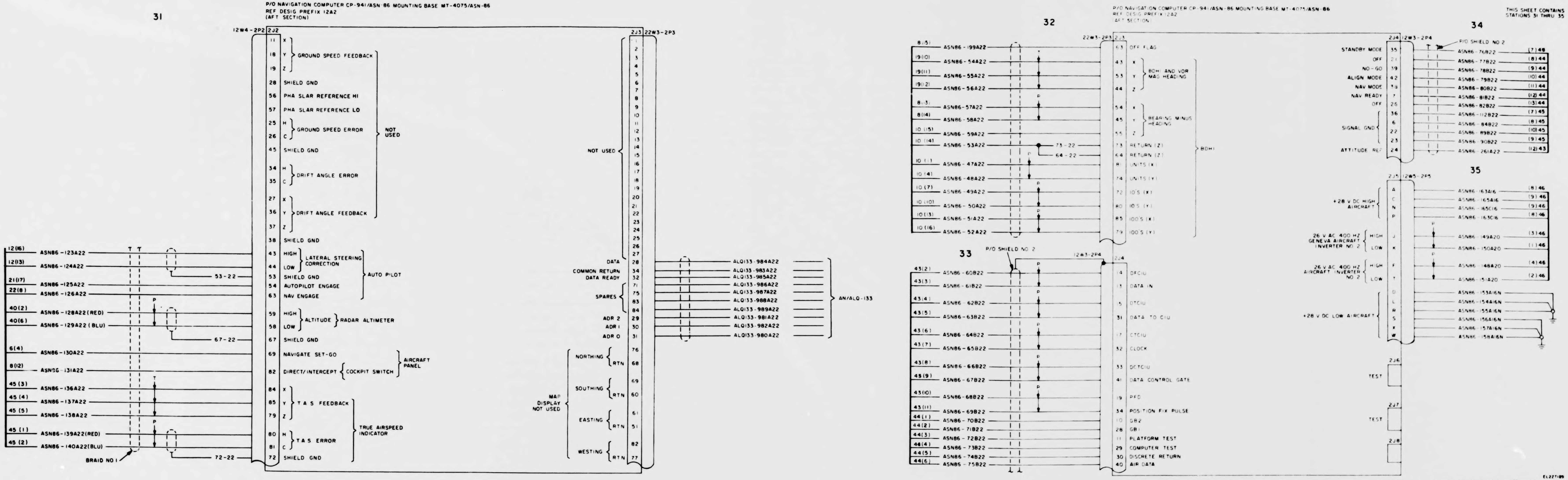
THIS SHEET CONTAINS STATIONS 26 THRU 30


P/O ASN76/86 FORWARD RELAY PANEL ASSEMBLY
REF DESIG PREFIX 29A11
(MID SECTION)
26
21(14) ASN86-198A20 F3
21(15) ASN86-278A20 F2
20(3) ASN76-36B20 F1
E3-20 E3
21(16) ASN76-80A20 E2
20(4) ASN76-37B20 E1
21(17) ASN86-125B22 D3
21(18) ASN86-279A22 D2
21(19) ASN76-79A20 D1
20(5) ASN86-115B22 C3
20(8) ASN86-280A22 C2
20(11) ASN76-53C20 C1
20(6) ASN86-113B22 B3
20(9) ASN86-281A22 B2
19(4) ASN76-54C20 B1
P
20(7) ASN86-114B22 A3
20(10) ASN86-282A22 A2
19(5) ASN76-52C20 A1
20(2) ASN76-67F20 X1
ASN76-82A20N X2
ASN76/86 TRANSFER RELAY K5
27
22(4) ASN86-290A22 F3
22(1) ASN86-57C22 F2
22(7) X23D22 F1
22(5) ASN86-291A22 E3
22(2) ASN86-58C22 E2
22(7) X23E22 E1
22(6) ASN86-292A22 D3
22(3) ASN86-159C22 D2
D1-20 D1
22(8) ASN86-126B22 C3
22(9) ASN86-293A22 C2
C1-20 C1
B3-20 B3
B2-20 B2
B1-20 B1
A3-20 A3
A2-20 A2
A1-20 A1
20(1) ASN76-67J20 X1
ASN76-87A20N X2
ASN76/86 TRANSFER RELAY K6
28
12W6-2P1
2J1
36(58) ASN86-40A22 58 AZMUTH CAGE ERROR
36(30) ASN86-38A22 30 OFF
36(82) ASN86-37A22 82 STANDBY/OFF
36(81) ASN86-36A22 81 QUANTIZER SCALE CHANGE
36(80) ASN86-35A22 80 WZ GAIN CHANGE
36(85) ASN86-34A22 85 MAGNETIC HEADING SERVO GO
36(79) ASN86-33A22 79 READY TO GYRO COMPASS
36(78) ASN86-32A22 78 PLATFORM READY
36(74) ASN86-31A22 74 COARSE HEATER ON
36(84) ASN86-30A22 84 PLATFORM GO
36(68) ASN86-29A22 68 RTN
36(69) ASN86-28A22 69
2.4/115.2 KHZ CLOCK
36(76) ASN86-27A22 76 RTN
36(77) ASN86-26A22 77
2.4 KHZ CLOCK
36(50) ASN86-25A22 50 RTN
36(59) ASN86-24A22 59
ΔW_X
36(51) ASN86-23A22 51 RTN
36(60) ASN86-22A22 60
ΔW_Y
36(52) ASN86-21A22 52 RTN
36(61) ASN86-20A22 61
ΔW_Z
36(65) ASN86-19A22 65 RTN
36(73) ASN86-18A22 73 −
36(64) ASN86-17A22 64 RTN
36(72) ASN86-16A22 72 +
ΔV_Y
36(63) ASN86-15A22 63 RTN
36(71) ASN86-14A22 71 −
36(62) ASN86-13A22 62 RTN
36(70) ASN86-12A22 70 +
ΔV_X
36(67) ASN86-11A22 67 RTN
36(75) ASN86-10A22 75
Δ PLATFORM RESET
P
P/O SHIELD NO. 10
P/O NAVIGATION COMPUTER CP-941/ASN-86 MOUNTING BASE MT-4075/ASN-86
REF DESIG PREFIX 12A2
(AFT SECTION)
TACAN
GND 42
47
CHANNEL SELECT CLOCK 31
CHANNEL SELECT CLOCK COMPLIMENT 33
INPUT DATA LINE 49
INPUT DATA LINE COMPLIMENT 50
INPUT DATA CONTROL 51
INPUT DATA CONTROL LINE COMPLIMENT 52
SHIELD 22
SMOOTH MAG HEADING X 12
Y 13
Z 21
DATA REQUEST A 20
B 30
OUTPUT DATA LINE 32
OUTPUT DATA LINE GND 41
INPUT SHIFT CLOCK 39
INPUT SHIFT CLOCK COMP 40
DATA TRAIN VALID 29
TI DISCRETE 48
COURSE INDICATOR
COURSE DEVIATION + RIGHT 2
+ LEFT 8
SHIELD GND 3
MAG HEADING X 1
Y 6
Z 7
INSTRUMENT AMPLIFIER
COMPASS FLAG UNMASKING 75
GYRO FLAG UNMASKING 76
NAV GO 46
APPROACH HORIZON INDICATOR
LOCALIZER FLAG UNMASKING 4
VOR-MAG HEADING X 62
Y 70
Z 71
HEADING MEMORY HIGH 74
LOW 73
2J2
12W4-2P2
BRAID NO 12
29
ARN103-9A22(RED) (H)5
ARN103-10A22(BLU) (J)5
ARN103-11A22(RED) (K)5
ARN103-12A22(BLU) (L)5
ARN103-14A22(BLU) (N)5
ARN103-13A22(RED) (M)5
ARN103-15A22(RED) (P)5
ARN103-16A22(BLU) (R)5
22-22
BRAID NO 1
ASN86-113A22 (6)20
ASN86-114A22 (7)20
ASN86-115A22 (5)20
ARN103-1A22(RED) (A)5
ARN103-2A22(BLU) (B)5
ARN103-3A22(RED) (C)5
ARN103-4A22(BLU) (D)5
ARN103-5A22(RED) (E)5
ARN103-6A22(BLU) (F)5
ARN103-7A22(RED) (G)5
ARN103-8A22(BLU) (S)5
ASN86-91A22 (14)9
ASN86-92A22 (13)9
3-22
BRAID NO 1
ASN86-93A22 (9)19
ASN86-94A22 (8)19
ASN86-95A22 (7)19
ASN86-97A22 (16)9
ASN86-98A22 (13)19
ASN86-96A22 (15)9
ASN86-133A22 (10)19
ASN86-134A22 (11)19
ASN86-135A22 (13)10
ARN103-17A22(RED) (2)5
ARN103-18A22(BLU) (a)5
BRAID NO 12
P
T
30
P/O SHIELD NO 2
P/O NAVIGATION COMPUTER CP-941/ASN-86 MOUNTING BASE MT-4075/ASN-86
REF DESIG PREFIX 12A2 (AFT SECTION)
12W6-2P1
2J1
66-22 66 SHIELD GND
37(47) ASN86-9A22(BLU) 47 Y
37(57) ASN86-8A22(YEL) 57 Z
37(56) ASN86-7A22(RED) 56 X
MAGNETIC HEADING NO 3
37(46) ASN86-6A22 46 Y
37(55) ASN86-5A22 55 Z
37(45) ASN86-4A22 45 X
MAGNETIC HEADING NO 2
37(44) ASN86-3A22 44 Y
37(54) ASN86-2A22 54 Z
37(43) ASN86-1A22 53 X
MAGNETIC HEADING NO 1
37(37) ASN86-141A22 37 NAV DISCRETE
37(83) ASN86-39A22 83 AIR DATA ENABLE
37(14) ASN86-260A22 26 ATTITUDE REF
37(49) ASN86-42A22(YEL) 49-22 49 Z
37(39) ASN86-43A22(BLU) 39-22 39 Y
37(48) ASN86-41A22(RED) 48-22 48 X
TRUE HEADING
29-22 29 SHIELD GND
21-22 21 SHIELD GND
21(8) ASN86-46A22(RED)
21(7) ASN86-44A22(BLU)
21(6) ASN86-45A22(YEL)
14
17
22
28
38
SPARES

EL22T100

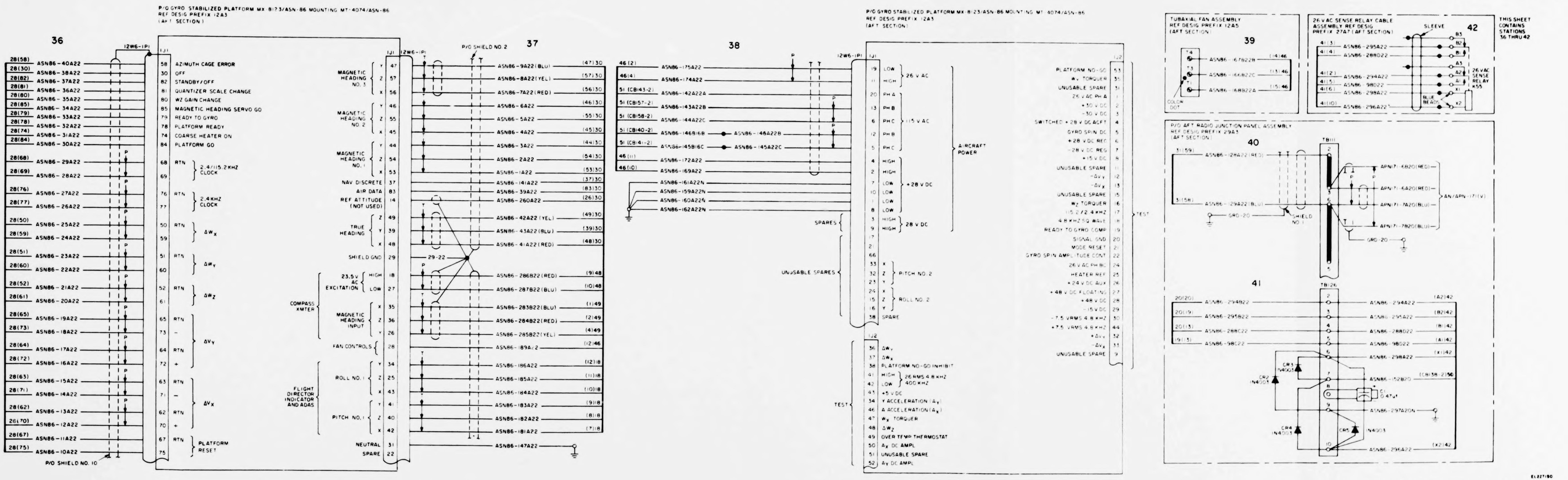
FO-14. Navigation facility wiring diagram (sheet 5 of 10).

THIS SHEET CONTAINS STATIONS 31 THRU 35


31
P/O NAVIGATION COMPUTER CP-941/ASN-86 MOUNTING BASE MT-4075/ASN-86
REF DESIG PREFIX 12A2
(AFT SECTION)
12W4-2P2
2J2
GROUND SPEED FEEDBACK
SHIELD GND
PHA SLAR REFERENCE HI
PHA SLAR REFERENCE LO
GROUND SPEED ERROR
NOT USED
DRIFT ANGLE ERROR
DRIFT ANGLE FEEDBACK
LATERAL STEERING CORRECTION
AUTO PILOT
AUTOPILOT ENGAGE
NAV ENGAGE
ALTITUDE
RADAR ALTIMETER
NAVIGATE SET-GO
DIRECT/INTERCEPT
COCKPIT SWITCH
AIRCRAFT PANEL
T A S FEEDBACK
T A S ERROR
TRUE AIRSPEED INDICATOR
ASN86-123A22
ASN86-124A22
ASN86-125A22
ASN86-126A22
ASN86-128A22 (RED)
ASN86-129A22 (BLU)
ASN86-130A22
ASN86-131A22
ASN86-136A22
ASN86-137A22
ASN86-138A22
ASN86-139A22 (RED)
ASN86-140A22 (BLU)
53-22
67-22
72-22
BRAID NO 1
2J3
22W3-2P3
NOT USED
DATA
COMMON RETURN
DATA READY
SPARES
ADR 2
ADR 1
ADR 0
ALQ133-984A22
ALQ133-983A22
ALQ133-985A22
ALQ133-986A22
ALQ133-987A22
ALQ133-988A22
ALQ133-989A22
ALQ133-981A22
ALQ133-982A22
ALQ133-980A22
AN/ALQ-133
NORTHING
SOUTHING
EASTING
WESTING
RTN
MAP DISPLAY NOT USED
32
P/O NAVIGATION COMPUTER CP-941/ASN-86 MOUNTING BASE MT-4075/ASN-86
REF DESIG PREFIX 12A2
(AFT SECTION)
22W3-2P3
ASN86-199A22
ASN86-54A22
ASN86-55A22
ASN86-56A22
ASN86-57A22
ASN86-58A22
ASN86-59A22
ASN86-53A22
ASN86-47A22
ASN86-48A22
ASN86-49A22
ASN86-50A22
ASN86-51A22
ASN86-52A22
73-22
64-22
OFF FLAG
BDHI AND VOR MAG HEADING
BEARING MINUS HEADING
RETURN (Z)
UNITS (X)
UNITS (Y)
10'S (X)
10'S (Y)
100'S (X)
100'S (Y)
BDHI
33
P/O SHIELD NO 2
12W3-2P4
2J4
ASN86-60B22
ASN86-61B22
ASN86-62B22
ASN86-63B22
ASN86-64B22
ASN86-65B22
ASN86-66B22
ASN86-67B22
ASN86-68B22
ASN86-69B22
ASN86-70B22
ASN86-71B22
ASN86-72B22
ASN86-73B22
ASN86-74B22
ASN86-75B22
DFCIU
DATA IN
DTCIU
DATA TO CIU
CTCIU
CLOCK
DCTCIU
DATA CONTROL GATE
PFD
POSITION FIX PULSE
GB2
GB1
PLATFORM TEST
COMPUTER TEST
DISCRETE RETURN
AIR DATA
34
12W3-2P4
P/O SHIELD NO 2
STANDBY MODE
OFF
NO-GO
ALIGN MODE
NAV MODE
NAV READY
OFF
SIGNAL GND
ATTITUDE REF
ASN86-76B22
ASN86-77B22
ASN86-78B22
ASN86-79B22
ASN86-80B22
ASN86-81B22
ASN86-82B22
ASN86-112B22
ASN86-84B22
ASN86-89B22
ASN86-90B22
ASN86-261A22
35
2J5
12W5-2P5
+28 V DC HIGH AIRCRAFT
26 V AC 400 HZ GENEVA AIRCRAFT INVERTER NO 2
26 V AC 400 HZ AIRCRAFT INVERTER NO 2
HIGH
LOW
+28 V DC LOW AIRCRAFT
ASN86-163A16
ASN86-165A16
ASN86-165C16
ASN86-163C16
ASN86-149A20
ASN86-150A20
ASN86-148A20
ASN86-151A20
ASN86-153A16N
ASN86-154A16N
ASN86-155A16N
ASN86-156A16N
ASN86-157A16N
ASN86-158A16N
2J6
TEST
2J7
TEST
2J8

EL2Z71

FO-14. Navigation facility wiring diagram (sheet 6 of 10).


36
37
38
39
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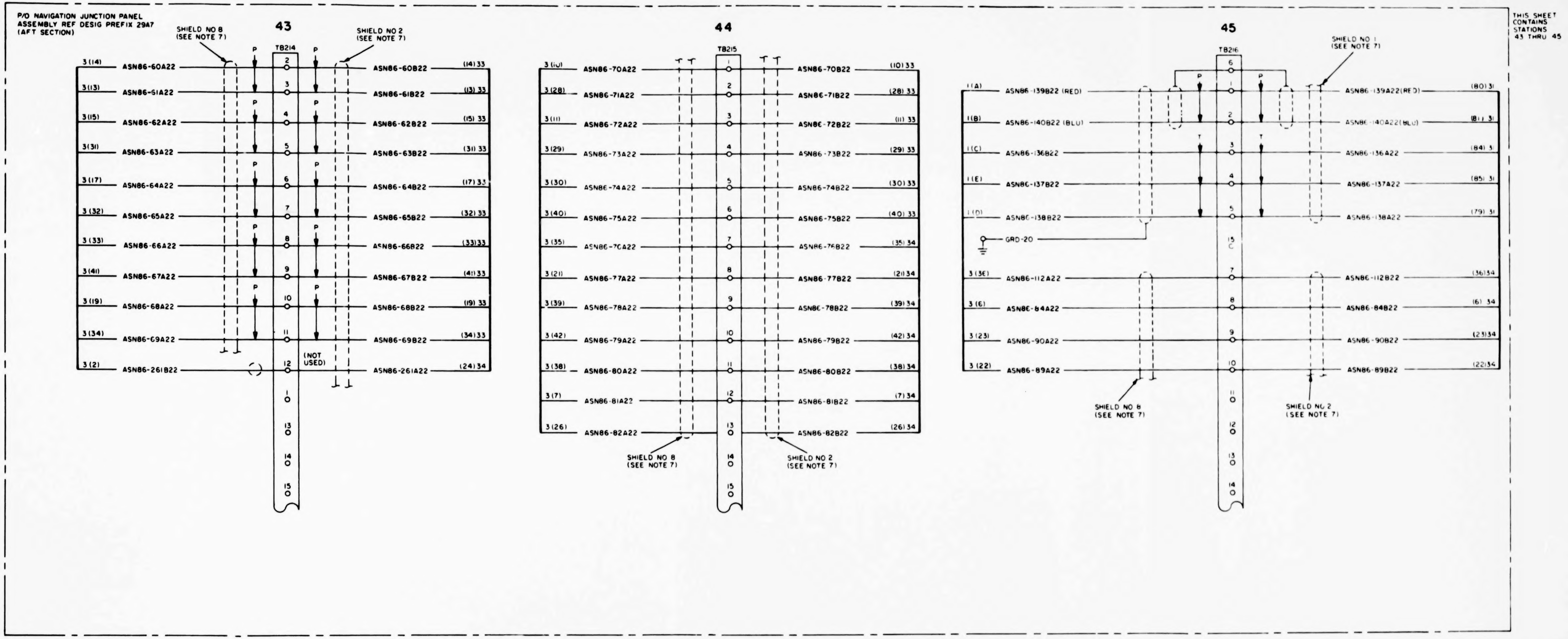
41
42
P/O GYRO STABILIZED PLATFORM MX-8123/ASN-86 MOUNTING MT-4074/ASN-86
REF DESIG PREFIX 12A3
(AFT SECTION)
12W6-1P1
1J1
1J2
58 AZIMUTH CAGE ERROR
30 OFF
82 STANDBY/OFF
81 QUANTIZER SCALE CHANGE
80 WZ GAIN CHANGE
85 MAGNETIC HEADING SERVO GO
79 READY TO GYRO
78 PLATFORM READY
74 COARSE HEATER ON
84 PLATFORM GO
2.4/115.2 KHZ CLOCK
2.4 KHZ CLOCK
PLATFORM RESET
P/O SHIELD NO. 10
P/O SHIELD NO. 2
MAGNETIC HEADING NO. 3
MAGNETIC HEADING NO. 2
MAGNETIC HEADING NO. 1
NAV DISCRETE
AIR DATA
REF ATTITUDE (NOT USED)
TRUE HEADING
SHIELD GND
23.5 V AC EXCITATION
COMPASS XMTER
MAGNETIC HEADING INPUT
FAN CONTROLS
FLIGHT DIRECTOR INDICATOR AND ADAS
ROLL NO. 1
PITCH NO. 1
NEUTRAL
SPARE
26 V AC
115 V AC
+28 V DC
28 V DC
AIRCRAFT POWER
SPARES
UNUSABLE SPARES
PITCH NO. 2
ROLL NO. 2
TEST
PLATFORM NO-GO
UNUSABLE SPARE
26 V AC PH A
+30 V DC
-30 V DC
SWITCHED +28 V DC ACFT
GYRO SPIN DC
+28 V DC REG
-28 V DC REG
+15 V DC
SIGNAL GND
MODE RESET
GYRO SPIN AMPLITUDE CONT
HEATER REF
+24 V DC AUX
+48 V DC FLOATING
+48 V DC
-15 V DC
-7.5 VRMS 4.8 KHZ
+7.5 VRMS 4.8 KHZ
PLATFORM NO-GO INHIBIT
26 RMS 4.8 KHZ 400 KHZ
+5 V DC
OVER TEMP THERMOSTAT
UNUSABLE SPARE
TUBAXIAL FAN ASSEMBLY
REF DESIG PREFIX 12A5
(AFT SECTION)
COLOR DOT
26 V AC SENSE RELAY CABLE ASSEMBLY REF DESIG PREFIX 27A7 (AFT SECTION)
SLEEVE
BLUE BEADS
26 V AC SENSE RELAY K55
THIS SHEET CONTAINS STATIONS 36 THRU 42
P/O AFT RADIO JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A3
(AFT SECTION)
TB(1)
TB(2)
SHIELD NO. 1
GRD-20
AN/APN-171(V)
CR2 IN4003
CR3 IN4003
CR4 IN4003
CR5 IN4003
C1 0.47μf

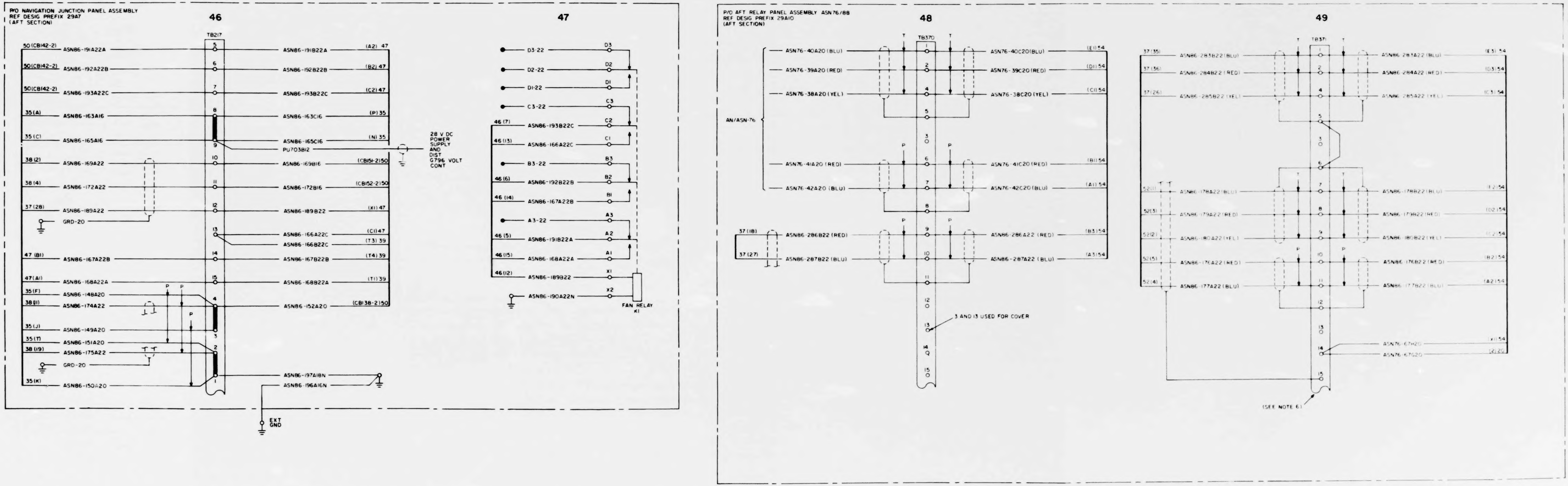
EL2Z7190

FO-14. Navigation facility wiring diagram (sheet 7 of 10).


P/O NAVIGATION JUNCTION PANEL
ASSEMBLY REF DESIG PREFIX 29A7
(AFT SECTION)
43
SHIELD NO 8
(SEE NOTE 7)
SHIELD NO 2
(SEE NOTE 7)
TB214
P
3 (14)
ASN86-60A22
ASN86-60B22
(14) 33
3 (13)
ASN86-61A22
ASN86-61B22
(13) 33
3 (15)
ASN86-62A22
ASN86-62B22
(15) 33
3 (31)
ASN86-63A22
ASN86-63B22
(31) 33
3 (17)
ASN86-64A22
ASN86-64B22
(17) 33
3 (32)
ASN86-65A22
ASN86-65B22
(32) 33
3 (33)
ASN86-66A22
ASN86-66B22
(33) 33
3 (41)
ASN86-67A22
ASN86-67B22
(41) 33
3 (19)
ASN86-68A22
ASN86-68B22
(19) 33
3 (34)
ASN86-69A22
ASN86-69B22
(34) 33
3 (2)
ASN86-261B22
(NOT USED)
ASN86-261A22
(24) 34
2
3
4
5
6
7
8
9
10
11
12
1
13
14
15
44
TB215
3 (10)
ASN86-70A22
ASN86-70B22
(10) 33
3 (28)
ASN86-71A22
ASN86-71B22
(28) 33
3 (11)
ASN86-72A22
ASN86-72B22
(11) 33
3 (29)
ASN86-73A22
ASN86-73B22
(29) 33
3 (30)
ASN86-74A22
ASN86-74B22
(30) 33
3 (40)
ASN86-75A22
ASN86-75B22
(40) 33
3 (35)
ASN86-70A22
ASN86-76B22
(35) 34
3 (21)
ASN86-77A22
ASN86-77B22
(21) 34
3 (39)
ASN86-78A22
ASN86-78B22
(39) 34
3 (42)
ASN86-79A22
ASN86-79B22
(42) 34
3 (38)
ASN86-80A22
ASN86-80B22
(38) 34
3 (7)
ASN86-81A22
ASN86-81B22
(7) 34
3 (26)
ASN86-82A22
ASN86-82B22
(26) 34
SHIELD NO 8
(SEE NOTE 7)
SHIELD NO 2
(SEE NOTE 7)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
45
TB216
SHIELD NO 1
(SEE NOTE 7)
P
T
1 (A)
ASN86-139B22 (RED)
ASN86-139A22 (RED)
(80) 31
1 (B)
ASN86-140B22 (BLU)
ASN86-140A22 (BLU)
(81) 31
1 (C)
ASN86-136B22
ASN86-136A22
(84) 31
1 (E)
ASN86-137B22
ASN86-137A22
(85) 31
1 (D)
ASN86-138B22
ASN86-138A22
(79) 31
GRD-20
3 (36)
ASN86-112A22
ASN86-112B22
(36) 34
3 (6)
ASN86-84A22
ASN86-84B22
(6) 34
3 (23)
ASN86-90A22
ASN86-90B22
(23) 34
3 (22)
ASN86-89A22
ASN86-89B22
(22) 34
6
1
2
3
4
5
15
C
7
8
9
10
11
12
13
14
SHIELD NO 8
(SEE NOTE 7)
SHIELD NO 2
(SEE NOTE 7)
THIS SHEET
CONTAINS
STATIONS
43 THRU 45

EL22T(9)

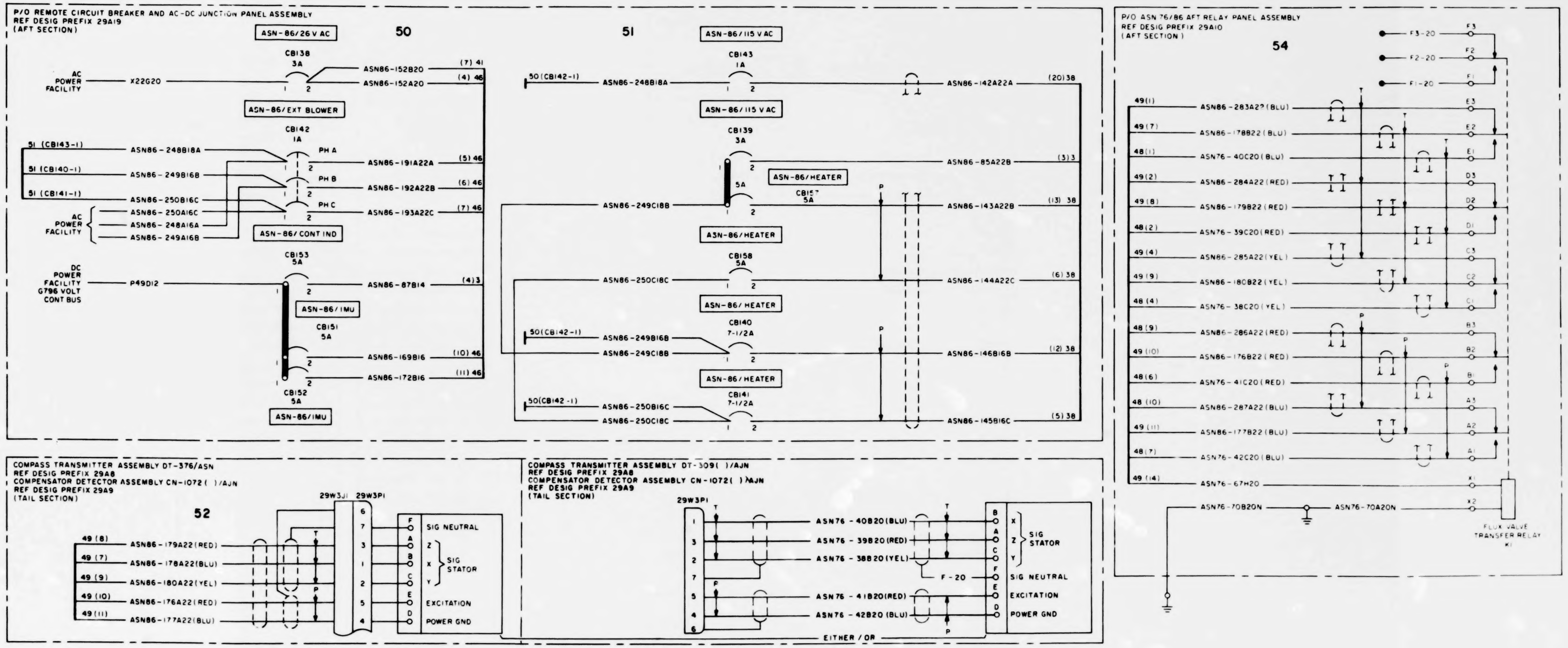
FO-14. Navigation facility wiring diagram (sheet 8 of 10).


P/O NAVIGATION JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A7
(AFT SECTION)
46
TB217
50 (CB142-2) ASN86-191A22A 5 ASN86-191B22A (A2) 47
50 (CB142-2) ASN86-192A22B 6 ASN86-192B22B (B2) 47
50 (CB142-2) ASN86-193A22C 7 ASN86-193B22C (C2) 47
35 (A) ASN86-163A16 8 ASN86-163C16 (P) 35
35 (C) ASN86-165A16 9 ASN86-165C16 (N) 35
PU703B12
28 V DC POWER SUPPLY AND DIST G796 VOLT CONT
38 (2) ASN86-169A22 10 ASN86-169B16 (CB151-2) 50
38 (4) ASN86-172A22 11 ASN86-172B16 (CB152-2) 50
37 (28) ASN86-189A22 12 ASN86-189B22 (X1) 47
GRD-20
13 ASN86-166A22C (C1) 47
ASN86-166B22C (T3) 39
47 (B1) ASN86-167A22B 14 ASN86-167B22B (T4) 39
47 (A1) ASN86-168A22A 15 ASN86-168B22A (T1) 39
35 (F) ASN86-148A20
38 (11) ASN86-174A22 4 ASN86-152A20 (CB138-2) 50
35 (J) ASN86-149A20 3
35 (T) ASN86-151A20 2
38 (19) ASN86-175A22
GRD-20
35 (K) ASN86-150A20 1
P
P
P
ASN86-197A18N
ASN86-196A16N
EXT GND
47
D3-22 D3
D2-22 D2
D1-22 D1
C3-22 C3
46 (7) ASN86-193B22C C2
46 (13) ASN86-166A22C C1
B3-22 B3
46 (6) ASN86-192B22B B2
46 (14) ASN86-167A22B B1
A3-22 A3
46 (5) ASN86-191B22A A2
46 (15) ASN86-168A22A A1
46 (12) ASN86-189B22 X1
ASN86-190A22N X2
FAN RELAY K1
P/O AFT RELAY PANEL ASSEMBLY ASN76/88
REF DESIG PREFIX 29A10
(AFT SECTION)
48
TB370
T
T
AN/ASN-76
ASN76-40A20 (BLU) 1 ASN76-40C20 (BLU) (E1) 54
ASN76-39A20 (RED) 2 ASN76-39C20 (RED) (D1) 54
ASN76-38A20 (YEL) 4 ASN76-38C20 (YEL) (C1) 54
5
3
P
P
ASN76-41A20 (RED) 6 ASN76-41C20 (RED) (B1) 54
ASN76-42A20 (BLU) 7 ASN76-42C20 (BLU) (A1) 54
8
37 (18) ASN86-286B22 (RED) 9 ASN86-286A22 (RED) (B3) 54
37 (27) ASN86-287B22 (BLU) 10 ASN86-287A22 (BLU) (A3) 54
11
12
13
14
15
3 AND 13 USED FOR COVER
49
TB371
37 (35) ASN86-283B22 (BLU) 1 ASN86-283A22 (BLU) (E3) 54
37 (36) ASN86-284B22 (RED) 2 ASN86-284A22 (RED) (D3) 54
37 (26) ASN86-285B22 (YEL) 4 ASN86-285A22 (YEL) (C3) 54
5
3
6
52 (1) ASN86-178A22 (BLU) 7 ASN86-178B22 (BLU) (E2) 54
52 (3) ASN86-179A22 (RED) 8 ASN86-179B22 (RED) (D2) 54
52 (2) ASN86-180A22 (YEL) 9 ASN86-180B22 (YEL) (C2) 54
52 (5) ASN86-176A22 (RED) 10 ASN86-176B22 (RED) (B2) 54
52 (4) ASN86-177A22 (BLU) 11 ASN86-177B22 (BLU) (A2) 54
12
13
14 ASN76-67H20 (X1) 54
ASN76-67G20 (2) 20
15
(SEE NOTE 6)
EL227192

THIS SHEET CONTAINS STATIONS 46 THRU 49

FO-14. Navigation facility wiring diagram (sheet 9 of 10).

THIS SHEET CONTAINS
STATIONS 50 THRU 54


P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
50
ASN-86/26 V AC
CB138
3A
AC POWER FACILITY
X22G20
ASN86-152B20
ASN86-152A20
(7) 41
(4) 46
ASN-86/EXT BLOWER
CB142
1A
51 (CB143-1)
51 (CB140-1)
51 (CB141-1)
ASN86-248B18A
ASN86-249B16B
ASN86-250B16C
ASN86-250A16C
ASN86-248A16A
ASN86-249A16B
PH A
PH B
PH C
ASN86-191A22A
ASN86-192A22B
ASN86-193A22C
(5) 46
(6) 46
(7) 46
ASN-86/CONT IND
CB153
5A
DC POWER FACILITY G796 VOLT CONT BUS
P49D12
ASN86-87B14
(4) 3
ASN-86/IMU
CB151
5A
ASN86-169B16
ASN86-172B16
(10) 46
(11) 46
CB152
5A
ASN-86/IMU
51
ASN-86/115 V AC
CB143
1A
50 (CB142-1)
ASN86-248B18A
ASN86-142A22A
(20) 38
ASN-86/115 V AC
CB139
3A
ASN86-85A22B
(3) 3
ASN-86/HEATER
5A
CB157
5A
ASN86-249C18B
ASN86-143A22B
(13) 38
ASN-86/HEATER
CB158
5A
ASN86-250C18C
ASN86-144A22C
(6) 38
ASN-86/HEATER
CB140
7-1/2A
50 (CB142-1)
ASN86-249B16B
ASN86-249C18B
ASN86-146B16B
(12) 38
ASN-86/HEATER
CB141
7-1/2A
50 (CB142-1)
ASN86-250B16C
ASN86-250C18C
ASN86-145B16C
(5) 38
P
T
P/O ASN 76/86 AFT RELAY PANEL ASSEMBLY
REF DESIG PREFIX 29A10
(AFT SECTION)
54
F3-20
F2-20
F1-20
F3
F2
F1
49 (1) ASN86-283A22 (BLU) E3
49 (7) ASN86-178B22 (BLU) E2
48 (1) ASN76-40C20 (BLU) E1
49 (2) ASN86-284A22 (RED) D3
49 (8) ASN86-179B22 (RED) D2
48 (2) ASN76-39C20 (RED) D1
49 (4) ASN86-285A22 (YEL) C3
49 (9) ASN86-180B22 (YEL) C2
48 (4) ASN76-38C20 (YEL) C1
48 (9) ASN86-286A22 (RED) B3
49 (10) ASN86-176B22 (RED) B2
48 (6) ASN76-41C20 (RED) B1
48 (10) ASN86-287A22 (BLU) A3
49 (11) ASN86-177B22 (BLU) A2
48 (7) ASN76-42C20 (BLU) A1
49 (14) ASN76-67H20 X1
ASN76-70B20N
ASN76-70A20N
X2
FLUX VALVE TRANSFER RELAY K1
COMPASS TRANSMITTER ASSEMBLY DT-376/ASN
REF DESIG PREFIX 29A8
COMPENSATOR DETECTOR ASSEMBLY CN-1072( )/AJN
REF DESIG PREFIX 29A9
(TAIL SECTION)
52
29W3J1 29W3P1
49 (8) ASN86-179A22 (RED)
49 (7) ASN86-178A22 (BLU)
49 (9) ASN86-180A22 (YEL)
49 (10) ASN86-176A22 (RED)
49 (11) ASN86-177A22 (BLU)
6
7
3
1
2
5
4
F SIG NEUTRAL
A Z
B X
C Y
SIG STATOR
E EXCITATION
D POWER GND
COMPASS TRANSMITTER ASSEMBLY DT-309( )/AJN
REF DESIG PREFIX 29A8
COMPENSATOR DETECTOR ASSEMBLY CN-1072( )/AJN
REF DESIG PREFIX 29A9
(TAIL SECTION)
29W3P1
ASN76-40B20 (BLU)
ASN76-39B20 (RED)
ASN76-38B20 (YEL)
F-20
ASN76-41B20 (RED)
ASN76-42B20 (BLU)
B X
A Z
C Y
SIG STATOR
F SIG NEUTRAL
E EXCITATION
D POWER GND
EITHER / OR

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   KY2B 16 C 22 N
   FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

   24 (8B)
   BASE LINE — LOCATION — PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4. ▭ INDICATES EQUIPMENT MARKINGS.

5. SHIELD NUMBER ARBITRARILY ASSIGNED.

6. SEE TB375, TERMINALS 5, 6, AND 7 FOR REMAINDER OF WIRES IN SHIELD.

7. SEE TB373, TERMINALS 7, 8, 9, 10, 11 AND 13 FOR REMAINDER OF WIRES IN SHIELD.

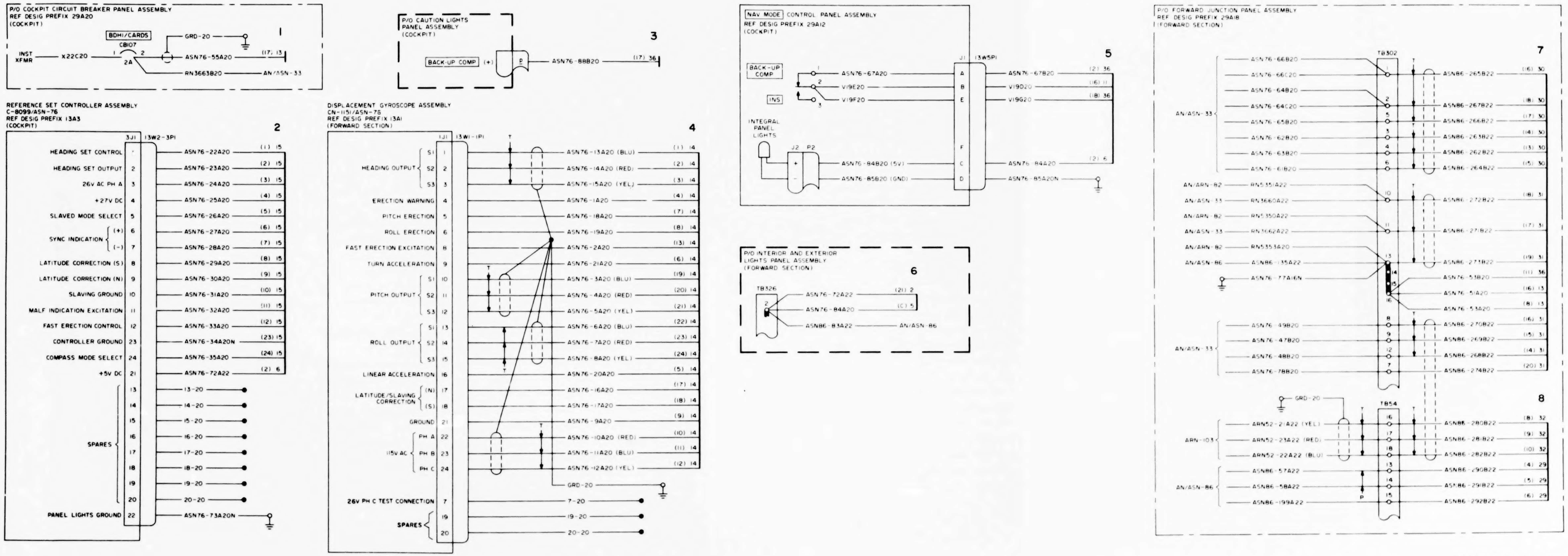
8. — — — FOR REFERENCE ONLY.

9. —⊖— INDICATES SHIELD CONNECTION.

EL2Z7193

FO-14. Navigation facility wiring diagram (sheet 10 of 10).

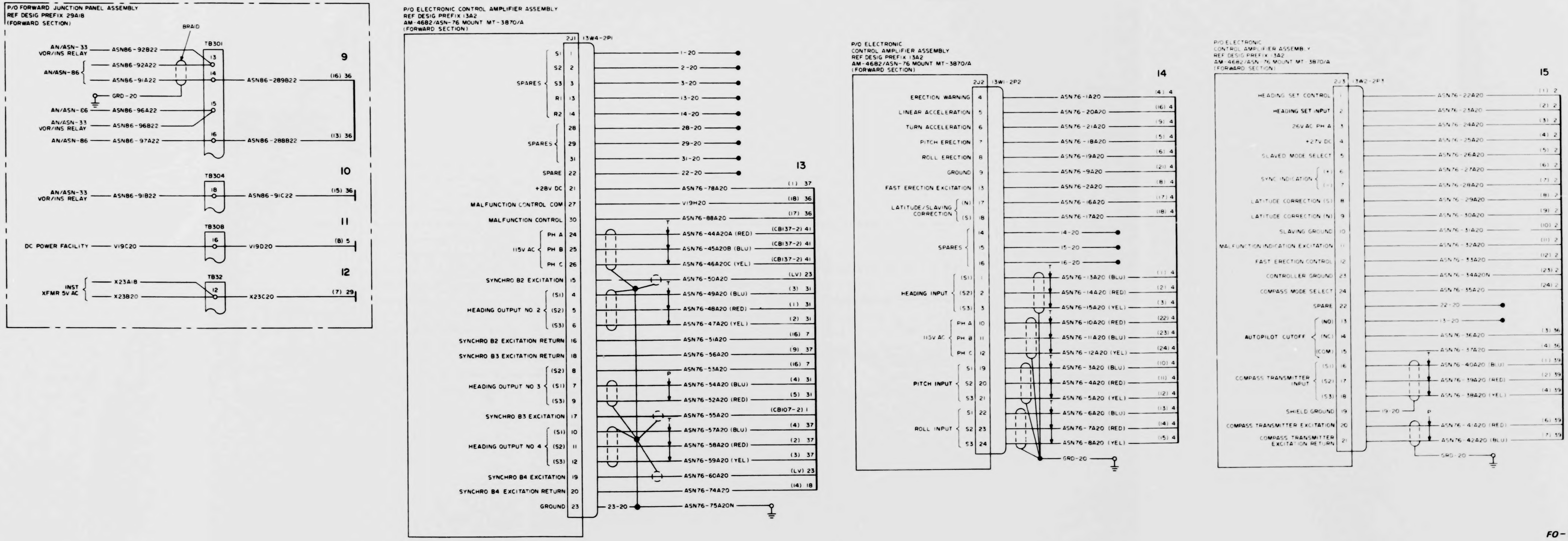
THIS SHEET CONTAINS
STATIONS 1 THRU 8


P/O COCKPIT CIRCUIT BREAKER PANEL ASSEMBLY
REF DESIG PREFIX 29A20
(COCKPIT)
1
BDHI/CARDS
CB107
2A
INST XFMR
X22C20
GRD-20
ASN76-55A20
(17) 13
RN3663B20
AN/ASN-33
P/O CAUTION LIGHTS PANEL ASSEMBLY
(COCKPIT)
3
BACK-UP COMP
ASN76-88B20
(17) 36
NAV MODE CONTROL PANEL ASSEMBLY
REF DESIG PREFIX 29A12
(COCKPIT)
5
BACK-UP COMP
INS
INTEGRAL PANEL LIGHTS
J1
13W5P1
ASN76-67A20
V19E20
V19F20
ASN76-84B20 (5V)
ASN76-85B20 (GND)
ASN76-67B20
V19D20
V19G20
ASN76-84A20
ASN76-85A20N
REFERENCE SET CONTROLLER ASSEMBLY
C-8099/ASN-76
REF DESIG PREFIX 13A3
(COCKPIT)
2
3J1
13W2-3P1
HEADING SET CONTROL
HEADING SET OUTPUT
26V AC PH A
+27V DC
SLAVED MODE SELECT
SYNC INDICATION
LATITUDE CORRECTION (S)
LATITUDE CORRECTION (N)
SLAVING GROUND
MALF INDICATION EXCITATION
FAST ERECTION CONTROL
CONTROLLER GROUND
COMPASS MODE SELECT
+5V DC
SPARES
PANEL LIGHTS GROUND
ASN76-73A20N
DISPLACEMENT GYROSCOPE ASSEMBLY
CN-1151/ASN-76
REF DESIG PREFIX 13A1
(FORWARD SECTION)
4
1J1
13W1-1P1
HEADING OUTPUT
ERECTION WARNING
PITCH ERECTION
ROLL ERECTION
FAST ERECTION EXCITATION
TURN ACCELERATION
PITCH OUTPUT
ROLL OUTPUT
LINEAR ACCELERATION
LATITUDE/SLAVING CORRECTION
GROUND
115V AC
26V PH C TEST CONNECTION
SPARES
GRD-20
P/O INTERIOR AND EXTERIOR LIGHTS PANEL ASSEMBLY
(FORWARD SECTION)
6
TB326
ASN76-72A22
ASN76-84A20
ASN86-83A22
AN/ASN-86
P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
7
TB302
AN/ASN-33
AN/ARN-82
AN/ASN-86
8
TB54
ARN-103
AN/ASN-86
GRD-20

EL2ZT194

FO-15. Attitude heading reference facility wiring diagram (sheet 1 of 6).

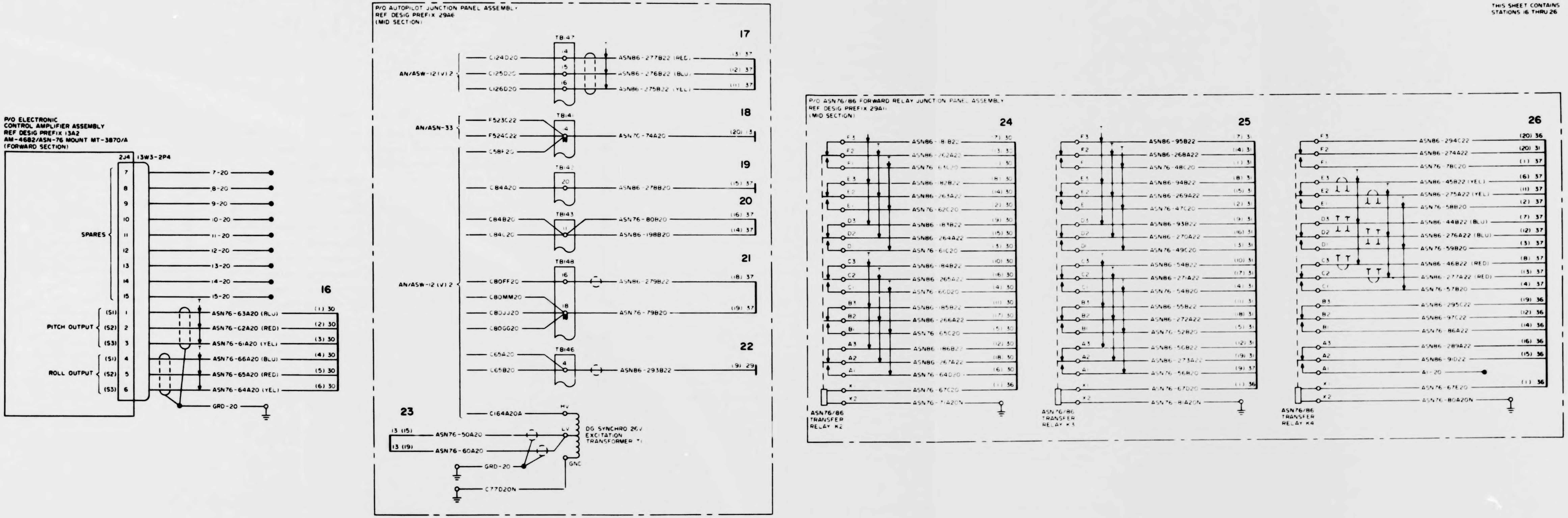
THIS SHEET CONTAINS
STATIONS 9 THRU 15


P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
BRAID
TB301
AN/ASN-33 VOR/INS RELAY
ASN86-92B22
13
AN/ASN-86
ASN86-92A22
ASN86-91A22
14
ASN86-289B22
(16) 36
9
GRD-20
AN/ASN-86
ASN86-96A22
15
AN/ASN-33 VOR/INS RELAY
ASN86-96B22
AN/ASN-86
ASN86-97A22
16
ASN86-288B22
(13) 36
10
TB304
AN/ASN-33 VOR/INS RELAY
ASN86-91B22
18
ASN86-91C22
(15) 36
11
TB308
DC POWER FACILITY
V19C20
16
V19D20
(8) 5
12
TB32
INST XFMR 5V AC
X23A18
X23B20
12
X23C20
(7) 29
P/O ELECTRONIC CONTROL AMPLIFIER ASSEMBLY
REF DESIG PREFIX 13A2
AM-4682/ASN-76 MOUNT MT-3870/A
(FORWARD SECTION)
2J1
13W4-2P1
SPARES
S1 1 1-20
S2 2 2-20
S3 3 3-20
R1 13 13-20
R2 14 14-20
SPARES
28 28-20
29 29-20
31 31-20
SPARE 22 22-20
13
+28V DC 21 ASN76-78A20 (1) 37
MALFUNCTION CONTROL COM 27 V19H20 (18) 36
MALFUNCTION CONTROL 30 ASN76-88A20 (17) 36
115V AC
PH A 24 ASN76-44A20A (RED) (CB137-2) 41
PH B 25 ASN76-45A20B (BLU) (CB137-2) 41
PH C 26 ASN76-46A20C (YEL) (CB137-2) 41
SYNCHRO B2 EXCITATION 15 ASN76-50A20 (LV) 23
HEADING OUTPUT NO 2
(S1) 4 ASN76-49A20 (BLU) (3) 31
(S2) 5 ASN76-48A20 (RED) (1) 31
(S3) 6 ASN76-47A20 (YEL) (2) 31
SYNCHRO B2 EXCITATION RETURN 16 ASN76-51A20 (16) 7
SYNCHRO B3 EXCITATION RETURN 18 ASN76-56A20 (9) 37
HEADING OUTPUT NO 3
(S2) 8 ASN76-53A20 (16) 7
(S1) 7 ASN76-54A20 (BLU) (4) 31
(S3) 9 ASN76-52A20 (RED) (5) 31
SYNCHRO B3 EXCITATION 17 ASN76-55A20 (CB107-2) 1
HEADING OUTPUT NO 4
(S1) 10 ASN76-57A20 (BLU) (4) 37
(S2) 11 ASN76-58A20 (RED) (2) 37
(S3) 12 ASN76-59A20 (YEL) (3) 37
SYNCHRO B4 EXCITATION 19 ASN76-60A20 (LV) 23
SYNCHRO B4 EXCITATION RETURN 20 ASN76-74A20 (14) 18
GROUND 23 23-20 ASN76-75A20N
T
P
P/O ELECTRONIC
CONTROL AMPLIFIER ASSEMBLY
REF DESIG PREFIX 13A2
AM-4682/ASN-76 MOUNT MT-3870/A
(FORWARD SECTION)
2J2
13W1-2P2
14
ERECTION WARNING 4 ASN76-1A20 (4) 4
LINEAR ACCELERATION 5 ASN76-20A20 (16) 4
TURN ACCELERATION 6 ASN76-21A20 (9) 4
PITCH ERECTION 7 ASN76-18A20 (5) 4
ROLL ERECTION 8 ASN76-19A20 (6) 4
GROUND 9 ASN76-9A20 (21) 4
FAST ERECTION EXCITATION 13 ASN76-2A20 (8) 4
LATITUDE/SLAVING CORRECTION
(N) 17 ASN76-16A20 (17) 4
(S) 18 ASN76-17A20 (18) 4
SPARES
14 14-20
15 15-20
16 16-20
HEADING INPUT
(S1) 1 ASN76-13A20 (BLU) (1) 4
(S2) 2 ASN76-14A20 (RED) (2) 4
(S3) 3 ASN76-15A20 (YEL) (3) 4
115V AC
PH A 10 ASN76-10A20 (RED) (22) 4
PH B 11 ASN76-11A20 (BLU) (23) 4
PH C 12 ASN76-12A20 (YEL) (24) 4
PITCH INPUT
S1 19 ASN76-3A20 (BLU) (10) 4
S2 20 ASN76-4A20 (RED) (11) 4
S3 21 ASN76-5A20 (YEL) (12) 4
ROLL INPUT
S1 22 ASN76-6A20 (BLU) (13) 4
S2 23 ASN76-7A20 (RED) (14) 4
S3 24 ASN76-8A20 (YEL) (15) 4
GRD-20
T
P/O ELECTRONIC
CONTROL AMPLIFIER ASSEMBLY
REF DESIG PREFIX 13A2
AM-4682/ASN-76 MOUNT MT-3870/A
(FORWARD SECTION)
2J3
13W2-2P3
15
HEADING SET CONTROL 1 ASN76-22A20 (1) 2
HEADING SET INPUT 2 ASN76-23A20 (2) 2
26V AC PH A 3 ASN76-24A20 (3) 2
+27V DC 4 ASN76-25A20 (4) 2
SLAVED MODE SELECT 5 ASN76-26A20 (5) 2
SYNC INDICATION
(+) 6 ASN76-27A20 (6) 2
(-) 7 ASN76-28A20 (7) 2
LATITUDE CORRECTION (S) 8 ASN76-29A20 (8) 2
LATITUDE CORRECTION (N) 9 ASN76-30A20 (9) 2
SLAVING GROUND 10 ASN76-31A20 (10) 2
MALFUNCTION INDICATION EXCITATION 11 ASN76-32A20 (11) 2
FAST ERECTION CONTROL 12 ASN76-33A20 (12) 2
CONTROLLER GROUND 23 ASN76-34A20N (23) 2
COMPASS MODE SELECT 24 ASN76-35A20 (24) 2
SPARE 22 22-20
AUTOPILOT CUTOFF
(NO) 13 13-20
(NC) 14 ASN76-36A20 (3) 36
(COM) 15 ASN76-37A20 (4) 36
COMPASS TRANSMITTER INPUT
(S1) 16 ASN76-40A20 (BLU) (1) 39
(S2) 17 ASN76-39A20 (RED) (2) 39
(S3) 18 ASN76-38A20 (YEL) (4) 39
SHIELD GROUND 19 19-20
COMPASS TRANSMITTER EXCITATION 20 ASN76-41A20 (RED) (6) 39
COMPASS TRANSMITTER EXCITATION RETURN 21 ASN76-42A20 (BLU) (7) 39
GRD-20
T
P

EL2ZT195

FO-15. Attitude heading reference facility wiring diagram (sheet 2 of 6).

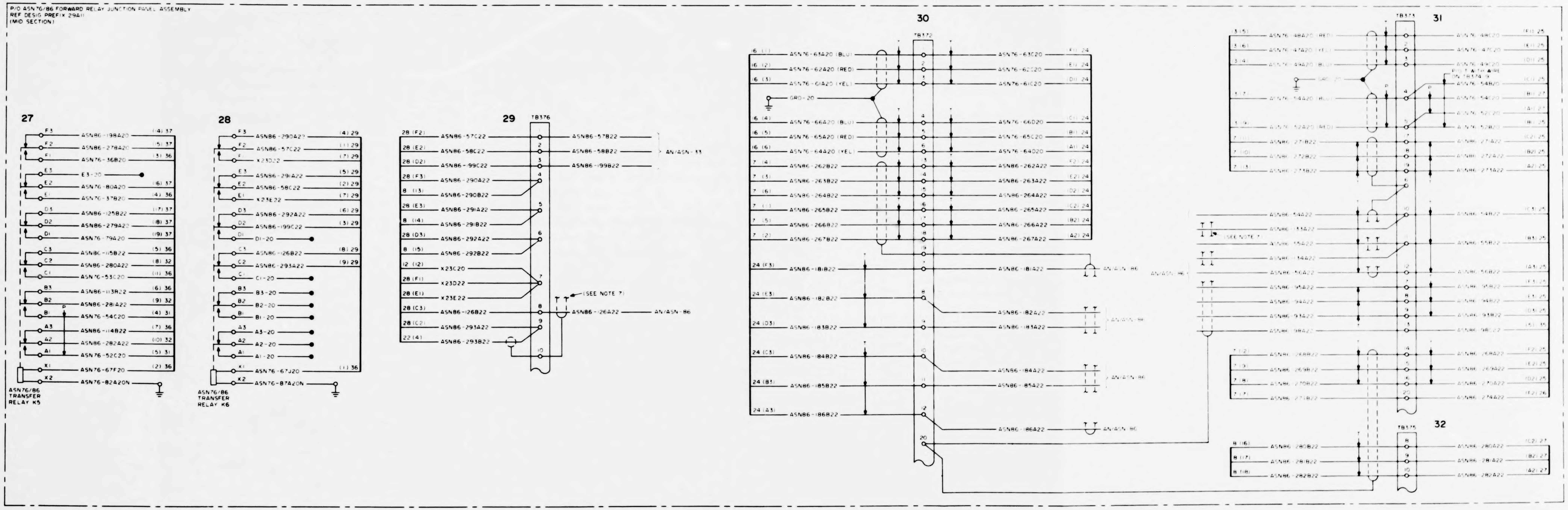
THIS SHEET CONTAINS
STATIONS 16 THRU 26


P/O ELECTRONIC
CONTROL AMPLIFIER ASSEMBLY
REF DESIG PREFIX 13A2
AM-4682/ASN-76 MOUNT MT-3870/A
(FORWARD SECTION)
2J4
13W3-2P4
SPARES
7
8
9
10
11
12
13
14
15
7-20
8-20
9-20
10-20
11-20
12-20
13-20
14-20
15-20
PITCH OUTPUT
ROLL OUTPUT
(S1)
(S2)
(S3)
1
2
3
4
5
6
16
ASN76-63A20 (BLU)
ASN76-62A20 (RED)
ASN76-61A20 (YEL)
ASN76-66A20 (BLU)
ASN76-65A20 (RED)
ASN76-64A20 (YEL)
(1) 30
(2) 30
(3) 30
(4) 30
(5) 30
(6) 30
GRD-20
P/O AUTOPILOT JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A6
(MID SECTION)
17
AN/ASW-12 (V) 2
C124D20
C125D20
C126D20
TB147
14
15
16
ASN86-277B22 (RED)
ASN86-276B22 (BLU)
ASN86-275B22 (YEL)
(3) 37
(12) 37
(11) 37
18
AN/ASN-33
F523C22
F524C22
C58F20
TB141
4
ASN76-74A20
(20) 13
19
C84A20
TB142
20
ASN86-278B20
(15) 37
20
C84B20
C84C20
TB143
11
ASN76-80B20
ASN86-198B20
(16) 37
(14) 37
21
AN/ASW-12 (V) 2
C80FF20
C80MM20
C80JJ20
C80GG20
TB148
16
18
ASN86-279B22
ASN76-79B20
(18) 37
(19) 37
22
C65A20
C65B20
TB146
4
ASN86-293B22
(9) 29
23
C164A20A
HV
LV
GND
13 (15)
13 (19)
ASN76-50A20
ASN76-60A20
GRD-20
C77D20N
DG SYNCHRO 26V
EXCITATION
TRANSFORMER T1
P/O ASN76/86 FORWARD RELAY JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A11
(MID SECTION)
24
F3
F2
F1
E3
E2
E1
D3
D2
D1
C3
C2
C1
B3
B2
B1
A3
A2
A1
X1
X2
ASN86-181B22
ASN86-262A22
ASN76-63C20
ASN86-182B22
ASN86-263A22
ASN76-62C20
ASN86-183B22
ASN86-264A22
ASN76-61C20
ASN86-184B22
ASN86-265A22
ASN76-60D20
ASN86-185B22
ASN86-266A22
ASN76-65C20
ASN86-186B22
ASN86-267A22
ASN76-64D20
ASN76-67C20
ASN76-71A20N
(7) 30
(13) 30
(1) 30
(8) 30
(14) 30
(2) 30
(9) 30
(15) 30
(3) 30
(10) 30
(16) 30
(4) 30
(11) 30
(17) 30
(5) 30
(12) 30
(18) 30
(6) 30
(1) 36
ASN76/86
TRANSFER
RELAY K2
25
ASN86-95B22
ASN86-268A22
ASN76-48C20
ASN86-94B22
ASN86-269A22
ASN76-47C20
ASN86-93B22
ASN86-270A22
ASN76-49C20
ASN86-54B22
ASN86-271A22
ASN76-54B20
ASN86-55B22
ASN86-272A22
ASN76-52B20
ASN86-56B22
ASN86-273A22
ASN76-56B20
ASN76-67D20
ASN76-81A20N
(7) 31
(14) 31
(1) 31
(8) 31
(15) 31
(2) 31
(9) 31
(16) 31
(3) 31
(10) 31
(17) 31
(4) 31
(11) 31
(18) 31
(5) 31
(12) 31
(19) 31
(9) 37
(1) 36
ASN76/86
TRANSFER
RELAY K3
26
ASN86-294C22
ASN86-274A22
ASN76-78C20
ASN86-45B22 (YEL)
ASN86-275A22 (YEL)
ASN76-58B20
ASN86-44B22 (BLU)
ASN86-276A22 (BLU)
ASN76-59B20
ASN86-46B22 (RED)
ASN86-277A22 (RED)
ASN76-57B20
ASN86-295C22
ASN86-97C22
ASN76-86A22
ASN86-289A22
ASN86-91D22
A1-20
ASN76-67E20
ASN76-80A20N
(20) 36
(20) 31
(1) 37
(6) 37
(11) 37
(2) 37
(7) 37
(12) 37
(3) 37
(8) 37
(13) 37
(4) 37
(19) 36
(12) 36
(14) 36
(16) 36
(15) 36
(1) 36
ASN76/86
TRANSFER
RELAY K4

EL2T2196

FO-15. *Attitude heading reference facility wiring diagram (sheet 3 of 6).*

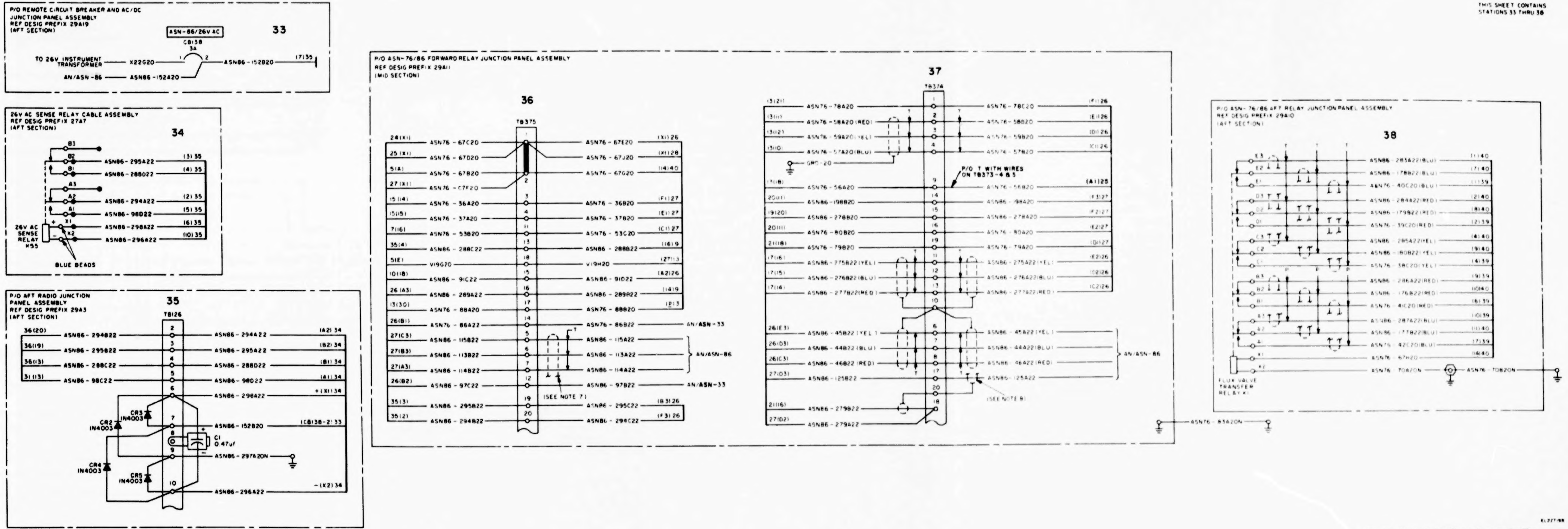
THIS SHEET CONTAINS STATIONS 27 THRU 32


P/O ASN76/86 FORWARD RELAY JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A11
(MID SECTION)
27
28
29
30
31
32
TB376
TB372
TB373
TB375
ASN76/86 TRANSFER RELAY K5
ASN76/86 TRANSFER RELAY K6
AN/ASN-33
AN/ASN-86
(SEE NOTE 7)
GRD-20
ASN76-63A20 (BLU)
ASN76-62A20 (RED)
ASN76-61A20 (YEL)
ASN76-66A20 (BLU)
ASN76-65A20 (RED)
ASN76-64A20 (YEL)
ASN76-82A20N
ASN76-87A20N

FO-15. *Attitude heading reference facility wiring diagram (sheet 4 of 6).*

EL2271.97

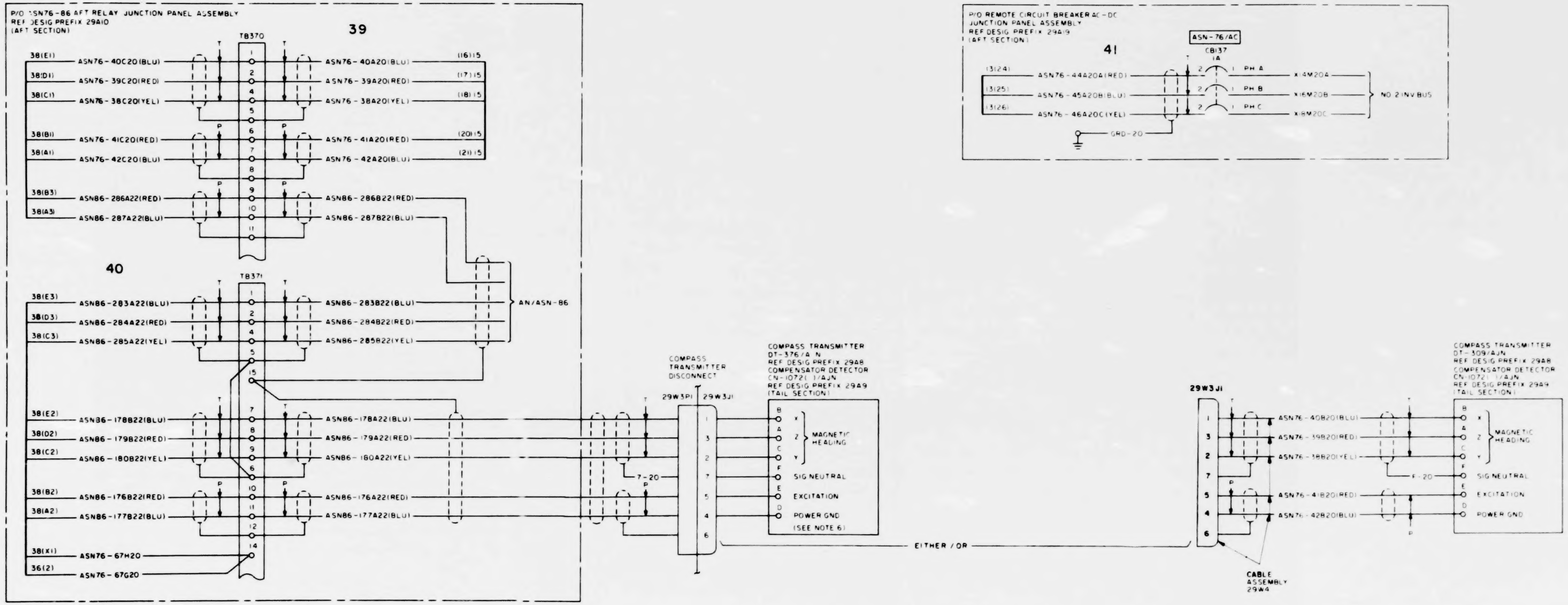
THIS SHEET CONTAINS
STATIONS 33 THRU 38


P/O REMOTE CIRCUIT BREAKER AND AC/DC JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A19 (AFT SECTION)
33
ASN-86/26V AC
CB138 3A
TO 26V INSTRUMENT TRANSFORMER
X22G20
AN/ASN-86
ASN86-152A20
ASN86-152B20
(7)35
26V AC SENSE RELAY CABLE ASSEMBLY REF DESIG PREFIX 27A7 (AFT SECTION)
34
26V AC SENSE RELAY K55
BLUE BEADS
ASN86-295A22
ASN86-288D22
ASN86-294A22
ASN86-98D22
ASN86-298A22
ASN86-296A22
P/O AFT RADIO JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A3 (AFT SECTION)
35
TB126
CR2 1N4003
CR3 1N4003
CR4 1N4003
CR5 1N4003
C1 0.47uf
ASN86-297A20N
P/O ASN-76/86 FORWARD RELAY JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A11 (MID SECTION)
36
TB375
(SEE NOTE 7)
AN/ASN-33
AN/ASN-86
37
TB374
P/O T WITH WIRES ON TB373-4 & 5
(SEE NOTE 8)
GRD-20
ASN76-83A20N
P/O ASN-76/86 AFT RELAY JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A10 (AFT SECTION)
38
FLUX VALVE TRANSFER RELAY K1
ASN76-70A20N
ASN76-70B20N

EL22T155

FO-15. *Attitude heading reference facility wiring diagram (sheet 5 of 6).*

THIS SHEET CONTAINS
STATIONS 39 THRU 41


P/O ASN76-86 AFT RELAY JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A10
(AFT SECTION)
39
TB370
38(E1)
ASN76-40C20(BLU)
38(D1)
ASN76-39C20(RED)
38(C1)
ASN76-38C20(YEL)
38(B1)
ASN76-41C20(RED)
38(A1)
ASN76-42C20(BLU)
38(B3)
ASN86-286A22(RED)
38(A3)
ASN86-287A22(BLU)
ASN76-40A20(BLU)
(16)15
ASN76-39A20(RED)
(17)15
ASN76-38A20(YEL)
(18)15
ASN76-41A20(RED)
(20)15
ASN76-42A20(BLU)
(21)15
ASN86-286B22(RED)
ASN86-287B22(BLU)
AN/ASN-86
40
TB371
38(E3)
ASN86-283A22(BLU)
38(D3)
ASN86-284A22(RED)
38(C3)
ASN86-285A22(YEL)
ASN86-283B22(BLU)
ASN86-284B22(RED)
ASN86-285B22(YEL)
38(E2)
ASN86-178B22(BLU)
38(D2)
ASN86-179B22(RED)
38(C2)
ASN86-180B22(YEL)
38(B2)
ASN86-176B22(RED)
38(A2)
ASN86-177B22(BLU)
38(X1)
ASN76-67H20
36(2)
ASN76-67G20
ASN86-178A22(BLU)
ASN86-179A22(RED)
ASN86-180A22(YEL)
ASN86-176A22(RED)
ASN86-177A22(BLU)
COMPASS TRANSMITTER DISCONNECT
29W3P1
29W3J1
7-20
COMPASS TRANSMITTER
DT-376/A N
REF DESIG PREFIX 29A8
COMPENSATOR DETECTOR
CN-1072( )/AJN
REF DESIG PREFIX 29A9
(TAIL SECTION)
X
Z
Y
MAGNETIC HEADING
SIG NEUTRAL
EXCITATION
POWER GND
(SEE NOTE 6)
EITHER / OR
P/O REMOTE CIRCUIT BREAKER AC-DC
JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
41
ASN-76/AC
CB137
1A
13(24)
ASN76-44A20A(RED)
13(25)
ASN76-45A20B(BLU)
13(26)
ASN76-46A20C(YEL)
PH A
PH B
PH C
X14M20A
X16M20B
X18M20C
NO 2 INV BUS
GRD-20
29W3J1
ASN76-40B20(BLU)
ASN76-39B20(RED)
ASN76-38B20(YEL)
ASN76-41B20(RED)
ASN76-42B20(BLU)
F-20
CABLE ASSEMBLY 29W4
COMPASS TRANSMITTER
DT-309/AJN
REF DESIG PREFIX 29A8
COMPENSATOR DETECTOR
CN-1072( )/AJN
REF DESIG PREFIX 29A9
(TAIL SECTION)

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   KY28 16 C 22 N
   FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

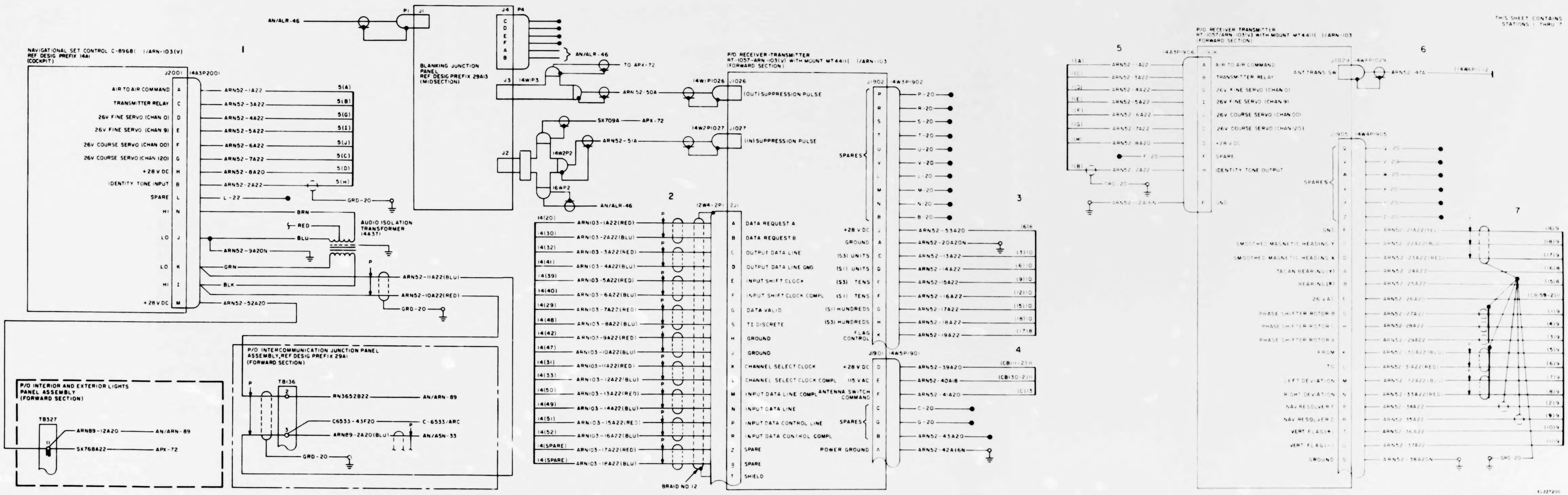
   24 (8B)
   BASE LINE — LOCATION — PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. TB373 PINS 7, 8, 9, 10, 11 AND 13, TB375 PINS 5, 6 AND 7, AND TB376 PIN 8 SHARE SAME SHIELD.
6. TB376 PIN 8 AND TB374 PIN 17 SHARE SAME SHIELD
7. —(-)— INDICATES SHIELD CONNECTION.
8. — — — FOR REFERENCE ONLY.

EL2271 99

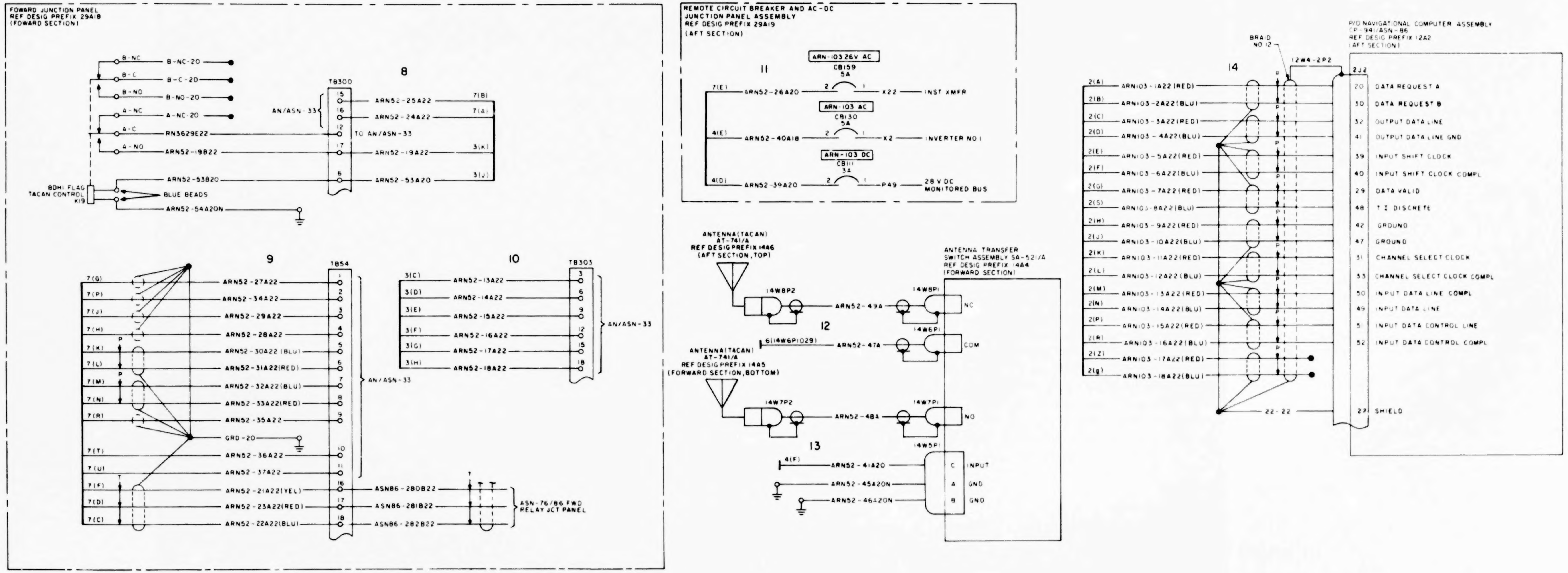
FO-15. Attitude heading reference facility wiring diagram (sheet 6 of 6).

THIS SHEET CONTAINS STATIONS 1 THRU 7


1
NAVIGATIONAL SET CONTROL C-8968( )/ARN-103(V)
REF DESIG PREFIX 14A1
(COCKPIT)
J2001
14A3P2001
AIR TO AIR COMMAND A ARN52-1A22 5(A)
TRANSMITTER RELAY C ARN52-3A22 5(B)
26V FINE SERVO (CHAN 0) D ARN52-4A22 5(G)
26V FINE SERVO (CHAN 9) E ARN52-5A22 5(I)
26V COURSE SERVO (CHAN 00) F ARN52-6A22 5(J)
26V COURSE SERVO (CHAN 120) G ARN52-7A22 5(C)
+28 V DC H ARN52-8A20 5(D)
IDENTITY TONE INPUT B ARN52-2A22 5(H)
SPARE L L-22
GRD-20
HI N BRN
RED
LO J BLU
ARN52-9A20N
AUDIO ISOLATION TRANSFORMER 14A3T1
LO K GRN
HI I BLK
P
ARN52-11A22(BLU)
ARN52-10A22(RED)
GRD-20
+28 V DC M ARN52-52A20
AN/ALR-46
P1
J1
J4
P4
C
D
E
F
A
B
AN/ALR-46
BLANKING JUNCTION PANEL
REF DESIG PREFIX 29A13
(MIDSECTION)
J3
14W1P3
TO APX-72
ARN 52-50A
J2
SX709A APX-72
ARN52-51A
14W2P2
16WP2
AN/ALR-46
P/O INTERIOR AND EXTERIOR LIGHTS
PANEL ASSEMBLY
(FORWARD SECTION)
TB327
11
ARN89-12A20 AN/ARN-89
SX768A22 APX-72
P/O INTERCOMMUNICATION JUNCTION PANEL
ASSEMBLY, REF DESIG PREFIX 29A1
(FORWARD SECTION)
P
TB136
2
RN3652B22 AN/ARN-89
3
C6533-43F20 C-6533/ARC
ARN89-2A20(BLU) AN/ASN-33
GRD-20
2
14(20) ARN103-1A22(RED)
14(30) ARN103-2A22(BLU)
14(32) ARN103-3A22(RED)
14(41) ARN103-4A22(BLU)
14(39) ARN103-5A22(RED)
14(40) ARN103-6A22(BLU)
14(29) ARN103-7A22(RED)
14(48) ARN103-8A22(BLU)
14(42) ARN103-9A22(RED)
14(47) ARN103-10A22(BLU)
14(31) ARN103-11A22(RED)
14(33) ARN103-12A22(BLU)
14(50) ARN103-13A22(RED)
14(49) ARN103-14A22(BLU)
14(51) ARN103-15A22(RED)
14(52) ARN103-16A22(BLU)
14(SPARE) ARN103-17A22(RED)
14(SPARE) ARN103-18A22(BLU)
BRAID NO 12
12W4-2P1
2J1
A DATA REQUEST A
B DATA REQUEST B
C OUTPUT DATA LINE
D OUTPUT DATA LINE GND
E INPUT SHIFT CLOCK
F INPUT SHIFT CLOCK COMPL
G DATA VALID
S TI DISCRETE
H GROUND
J GROUND
K CHANNEL SELECT CLOCK
L CHANNEL SELECT CLOCK COMPL
M INPUT DATA LINE COMPL
N INPUT DATA LINE
P INPUT DATA CONTROL LINE
R INPUT DATA CONTROL COMPL
Z SPARE
a SPARE
T SHIELD
P/O RECEIVER-TRANSMITTER
RT-1057-ARN-103(V) WITH MOUNT MT4411( )/ARN-103
(FORWARD SECTION)
14W1P1026
J1026
(OUT) SUPPRESSION PULSE
14W2P1027
J1027
(IN) SUPPRESSION PULSE
J1902
14W3P1902
SPARES
P P-20
R R-20
S S-20
T T-20
U U-20
V V-20
L L-20
M M-20
N N-20
B B-20
3
+28 V DC J ARN52-53A20 (6)8
GROUND A ARN52-20A20N
(S3) UNITS C ARN52-13A22 (3)10
(S1) UNITS D ARN52-14A22 (6)10
(S3) TENS E ARN52-15A22 (9)10
(S1) TENS F ARN52-16A22 (12)10
(S1) HUNDREDS G ARN52-17A22 (15)10
(S3) HUNDREDS H ARN52-18A22 (18)10
FLAG CONTROL K ARN52-19A22 (17)8
4
J1901
14W5P1901
+28 V DC D ARN52-39A20 (CB11-2)11
115 VAC E ARN52-40A18 (CB130-2)11
ANTENNA SWITCH COMMAND F ARN52-41A20 (C)13
SPARES
C C-20
G G-20
B ARN52-43A20
POWER GROUND A ARN52-42A16N
5
P/O RECEIVER TRANSMITTER
RT-1057/ARN-103(V) WITH MOUNT MT4411( )/ARN-103
(FORWARD SECTION)
14A3P1906
J1906
1(A) ARN52-1A22 A AIR TO AIR COMMAND
1(C) ARN52-3A22 B TRANSMITTER RELAY
1(D) ARN52-4A22 G 26V FINE SERVO (CHAN 0)
1(E) ARN52-5A22 I 26V FINE SERVO (CHAN 9)
1(F) ARN52-6A22 J 26V COURSE SERVO (CHAN 00)
1(G) ARN52-7A22 C 26V COURSE SERVO (CHAN 120)
1(H) ARN52-8A20 D +28 V DC
F-20 F SPARE
1(B) ARN52-2A22 H IDENTITY TONE OUTPUT
GRD-20
ARN52-12A16N E GND
6
J1029
14W6P1029
ANT TRANS SW
ARN52-47A
(14W6P1)12
J1905
14W4P1905
SPARES
Q Q-20
V V-20
W W-20
X X-20
Y Y-20
Z Z-20
7
GND F ARN52-21A22(YEL) (16)9
SMOOTHED MAGNETIC HEADING Y ARN52-22A22(BLU) (18)9
SMOOTHED MAGNETIC HEADING X D ARN52-23A22(RED) (17)9
TACAN BEARING (Y) A ARN52-24A22 (16)8
BEARING (X) B ARN52-25A22 (15)8
26 VAC E ARN52-26A20 (CB59-2)11
PHASE SHIFTER ROTOR B G ARN52-27A22 (1)9
PHASE SHIFTER ROTOR H ARN52-28A22 (4)9
PHASE SHIFTER ROTOR A ARN52-29A22 (3)9
FROM K ARN52-30A22(BLU) (5)9
TO L ARN52-31A22(RED) (6)9
LEFT DEVIATION M ARN52-32A22(BLU) (7)9
RIGHT DEVIATION N ARN52-33A22(RED) (8)9
NAV RESOLVER F P ARN52-34A22 (2)9
NAV RESOLVER D R ARN52-35A22 (9)9
VERT FLAG(+) T ARN52-36A22 (10)9
VERT FLAG(-) U ARN52-37A22 (11)9
GROUND S ARN52-38A20N
GRD-20
P
EL227200

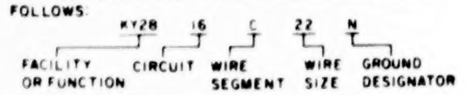
FO-16. TACAN facility wiring diagram (sheet 1 of 2).

THIS SHEET CONTAINS
STATIONS 8 THRU 14

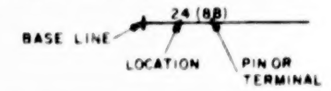

FOWARD JUNCTION PANEL
REF DESIG PREFIX 29A18
(FOWARD SECTION)
8
B-NC
B-NC-20
B-C
B-C-20
B-NO
B-NO-20
A-NC
A-NC-20
A-C
RN3629E22
A-NO
ARN52-19B22
BDHI FLAG
TACAN CONTROL
K19
ARN52-53B20
BLUE BEADS
ARN52-54A20N
TB300
AN/ASN-33
15
16
12
17
6
ARN52-25A22
ARN52-24A22
TO AN/ASN-33
ARN52-19A22
ARN52-53A20
7(B)
7(A)
3(K)
3(J)
9
TB54
7(G)
7(P)
7(J)
7(H)
7(K)
7(L)
7(M)
7(N)
7(R)
7(T)
7(U)
7(F)
7(D)
7(C)
P
T
ARN52-27A22
ARN52-34A22
ARN52-29A22
ARN52-28A22
ARN52-30A22 (BLU)
ARN52-31A22(RED)
ARN52-32A22(BLU)
ARN52-33A22(RED)
ARN52-35A22
GRD-20
ARN52-36A22
ARN52-37A22
ARN52-21A22(YEL)
ARN52-23A22(RED)
ARN52-22A22(BLU)
1
2
3
4
5
6
7
8
9
10
11
16
17
18
AN/ASN-33
ASN86-280B22
ASN86-281B22
ASN86-282B22
ASN-76/86 FWD
RELAY JCT PANEL
10
TB303
3(C)
3(D)
3(E)
3(F)
3(G)
3(H)
ARN52-13A22
ARN52-14A22
ARN52-15A22
ARN52-16A22
ARN52-17A22
ARN52-18A22
3
6
9
12
15
18
AN/ASN-33
REMOTE CIRCUIT BREAKER AND AC-DC
JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
11
ARN-103 26V AC
CB159
5A
7(E)
ARN52-26A20
2
1
X22
INST XMFR
ARN-103 AC
CB130
5A
4(E)
ARN52-40A18
X2
INVERTER NO 1
ARN-103 DC
CB111
3A
4(D)
ARN52-39A20
P49
28 V DC
MONITORED BUS
ANTENNA (TACAN)
AT-741/A
REF DESIG PREFIX 14A6
(AFT SECTION, TOP)
14W8P2
ARN52-49A
14W8P1
NC
12
14W6P1
6(14W6P1029)
ARN52-47A
COM
ANTENNA (TACAN)
AT-741/A
REF DESIG PREFIX 14A5
(FORWARD SECTION, BOTTOM)
14W7P2
ARN52-48A
14W7P1
NO
13
14W5P1
4(F)
ARN52-41A20
ARN52-45A20N
ARN52-46A20N
C
A
B
INPUT
GND
GND
ANTENNA TRANSFER
SWITCH ASSEMBLY SA-521/A
REF DESIG PREFIX 14A4
(FORWARD SECTION)
14
BRAID
NO 12
12W4-2P2
P
2(A)
2(B)
2(C)
2(D)
2(E)
2(F)
2(G)
2(S)
2(H)
2(J)
2(K)
2(L)
2(M)
2(N)
2(P)
2(R)
2(Z)
2(g)
ARN103-1A22(RED)
ARN103-2A22(BLU)
ARN103-3A22(RED)
ARN103-4A22(BLU)
ARN103-5A22(RED)
ARN103-6A22(BLU)
ARN103-7A22(RED)
ARN103-8A22(BLU)
ARN103-9A22(RED)
ARN103-10A22(BLU)
ARN103-11A22(RED)
ARN103-12A22(BLU)
ARN103-13A22(RED)
ARN103-14A22(BLU)
ARN103-15A22(RED)
ARN103-16A22(BLU)
ARN103-17A22(RED)
ARN103-18A22(BLU)
22-22
P/O NAVIGATIONAL COMPUTER ASSEMBLY
CP-941/ASN-86
REF DESIG PREFIX 12A2
(AFT SECTION)
2J2
20 DATA REQUEST A
30 DATA REQUEST B
32 OUTPUT DATA LINE
41 OUTPUT DATA LINE GND
39 INPUT SHIFT CLOCK
40 INPUT SHIFT CLOCK COMPL
29 DATA VALID
48 T I DISCRETE
42 GROUND
47 GROUND
31 CHANNEL SELECT CLOCK
33 CHANNEL SELECT CLOCK COMPL
50 INPUT DATA LINE COMPL
49 INPUT DATA LINE
51 INPUT DATA CONTROL LINE
52 INPUT DATA CONTROL COMPL
22 SHIELD

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:


KY28
16
C
22
N
FACILITY
OR FUNCTION
CIRCUIT
WIRE
SEGMENT
WIRE
SIZE
GROUND
DESIGNATOR

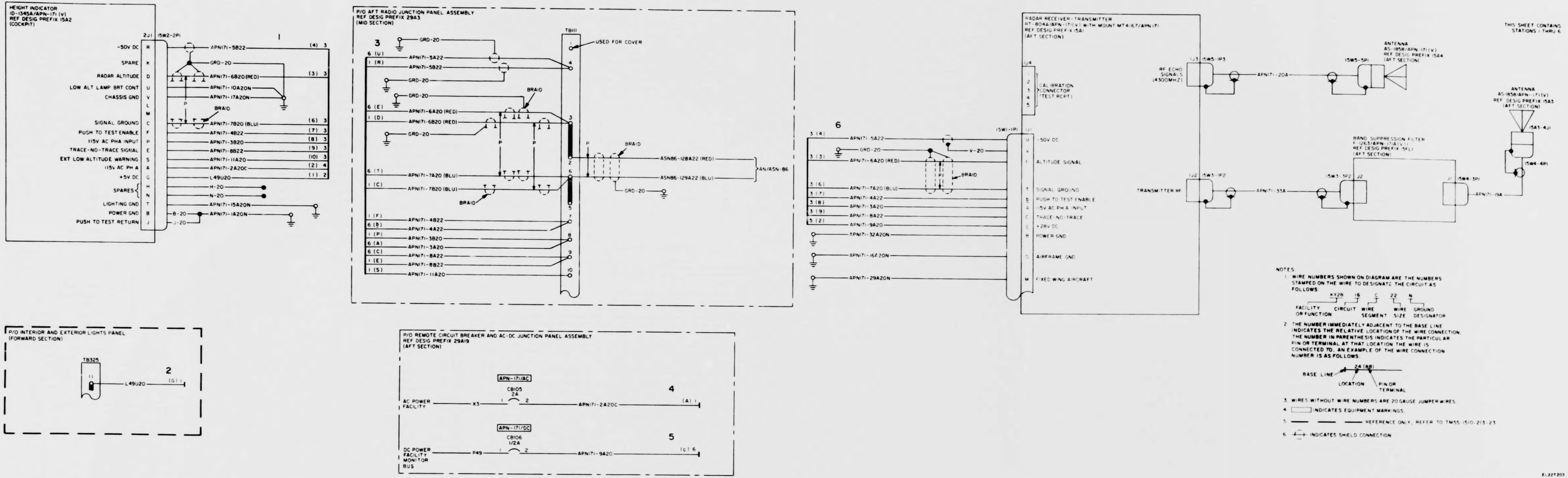
2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:


24 (8B)
BASE LINE
LOCATION
PIN OR
TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ☐ INDICATES EQUIPMENT MARKINGS.
5. —(+)— INDICATES SHIELD CONNECTION
6. — — — FOR REFERENCE ONLY

EL22T201

FO-16. TACAN facility wiring diagram (sheet 2 of 2).


THIS SHEET CONTAINS STATIONS 1 THRU 6
HEIGHT INDICATOR
ID-1345A/APN-171 (V)
REF DESIG PREFIX 15A2
(COCKPIT)
2J1
15W2-2P1
1
-50V DC
SPARE
RADAR ALTITUDE
LOW ALT LAMP BRT CONT
CHASSIS GND
SIGNAL GROUND
PUSH TO TEST ENABLE
115V AC PHA INPUT
TRACE-NO-TRACE SIGNAL
EXT LOW ALTITUDE WARNING
115V AC PH A
+5V DC
SPARES
LIGHTING GND
POWER GND
PUSH TO TEST RETURN
R
K
D
U
V
L
M
C
F
P
E
S
A
G
H
N
T
B
J
APN171-5B22
GRD-20
APN171-6B20 (RED)
APN171-10A20N
APN171-17A20N
P
BRAID
APN171-7B20 (BLU)
APN171-4B22
APN171-3B20
APN171-8B22
APN171-11A20
APN171-2A20C
L49U20
H-20
N-20
APN171-15A20N
B-20
APN171-1A20N
J-20
(4) 3
(3) 3
(6) 3
(7) 3
(8) 3
(9) 3
(10) 3
(2) 4
(1) 2
P/O AFT RADIO JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A3
(MID SECTION)
3
TB111
USED FOR COVER
GRD-20
6 (U)
APN171-5A22
1 (R)
APN171-5B22
6 (E)
APN171-6A20 (RED)
1 (D)
APN171-6B20 (RED)
6 (T)
APN171-7A20 (BLU)
1 (C)
APN171-7B20 (BLU)
1 (F)
APN171-4B22
6 (b)
APN171-4A22
1 (P)
APN171-3B20
6 (A)
APN171-3A20
6 (C)
APN171-8A22
1 (E)
APN171-8B22
1 (S)
APN171-11A20
1
4
3
2
6
5
7
8
9
10
ASN86-128A22 (RED)
ASN86-129A22 (BLU)
AN/ASN-86
P/O INTERIOR AND EXTERIOR LIGHTS PANEL
(FORWARD SECTION)
TB325
11
L49U20
2
(G) 1
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
APN-171/AC
CB105
2A
AC POWER FACILITY
X3
APN171-2A20C
4
(A) 1
APN-171/DC
CB106
1/2A
DC POWER FACILITY MONITOR BUS
P49
APN171-9A20
5
(C) 6
6
3 (4)
APN171-5A22
GRD-20
V-20
3 (3)
APN171-6A20 (RED)
3 (6)
APN171-7A20 (BLU)
3 (7)
APN171-4A22
3 (8)
APN171-3A20
3 (9)
APN171-8A22
5 (2)
APN171-9A20
APN171-32A20N
APN171-16A20N
APN171-29A20N
15W1-1P1
1J1
RADAR RECEIVER-TRANSMITTER
RT-804A/APN-171(V) WITH MOUNT MT4167/APN171
REF DESIG PREFIX 15A1
(AFT SECTION)
1J4
CALIBRATION CONNECTOR (TEST RCPT)
-50V DC
ALTITUDE SIGNAL
SIGNAL GROUND
PUSH TO TEST ENABLE
115V AC PH A INPUT
TRACE-NO-TRACE
+28V DC
POWER GND
AIRFRAME GND
FIXED WING AIRCRAFT
RF ECHO SIGNALS (4300MHZ)
1J3
15W5-1P3
APN171-20A
15W5-5P1
ANTENNA
AS-1858/APN-171(V)
REF DESIG PREFIX 15A4
(AFT SECTION)
TRANSMITTER RF
1J2
15W3-1P2
APN171-33A
15W3-3P2
J2
BAND SUPPRESSION FILTER
F-1263/APN-171A(V)
REF DESIG PREFIX 15FL1
(AFT SECTION)
J1
15W4-3P1
APN171-19A
ANTENNA
AS-1858/APN-171(V)
REF DESIG PREFIX 15A3
(AFT SECTION)
15A3-4J1
15W4-4P1

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

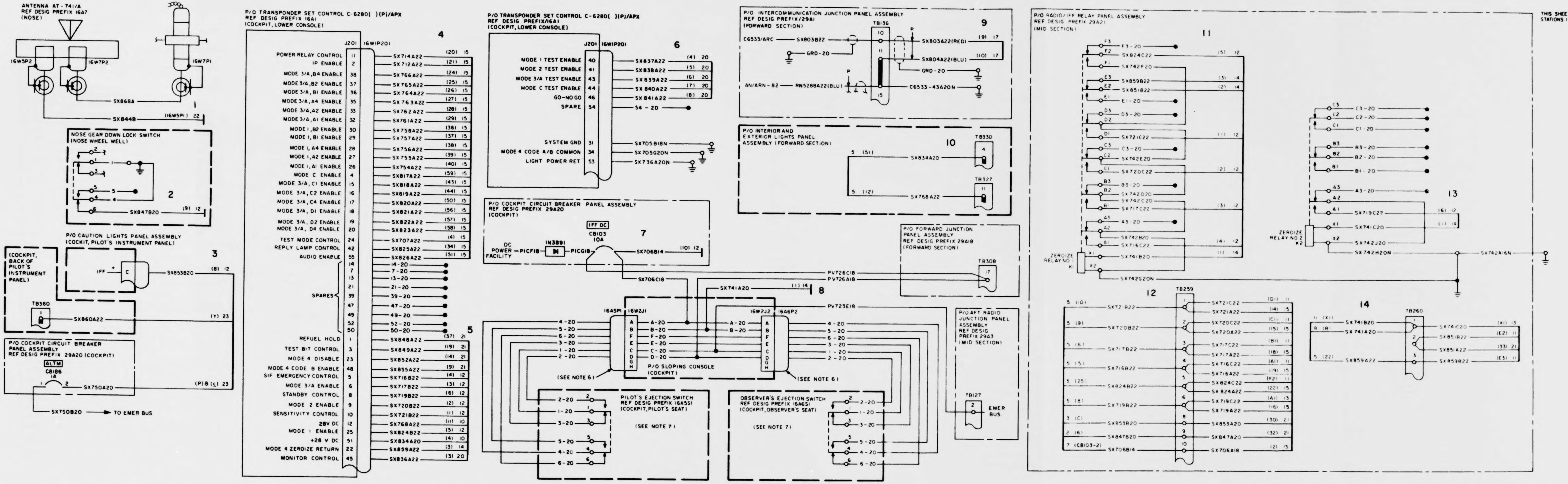
KY28	16	C	22	N
FACILITY OR FUNCTION	CIRCUIT	WIRE SEGMENT	WIRE SIZE	GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

24 (BB)
BASE LINE
LOCATION
PIN OR TERMINAL

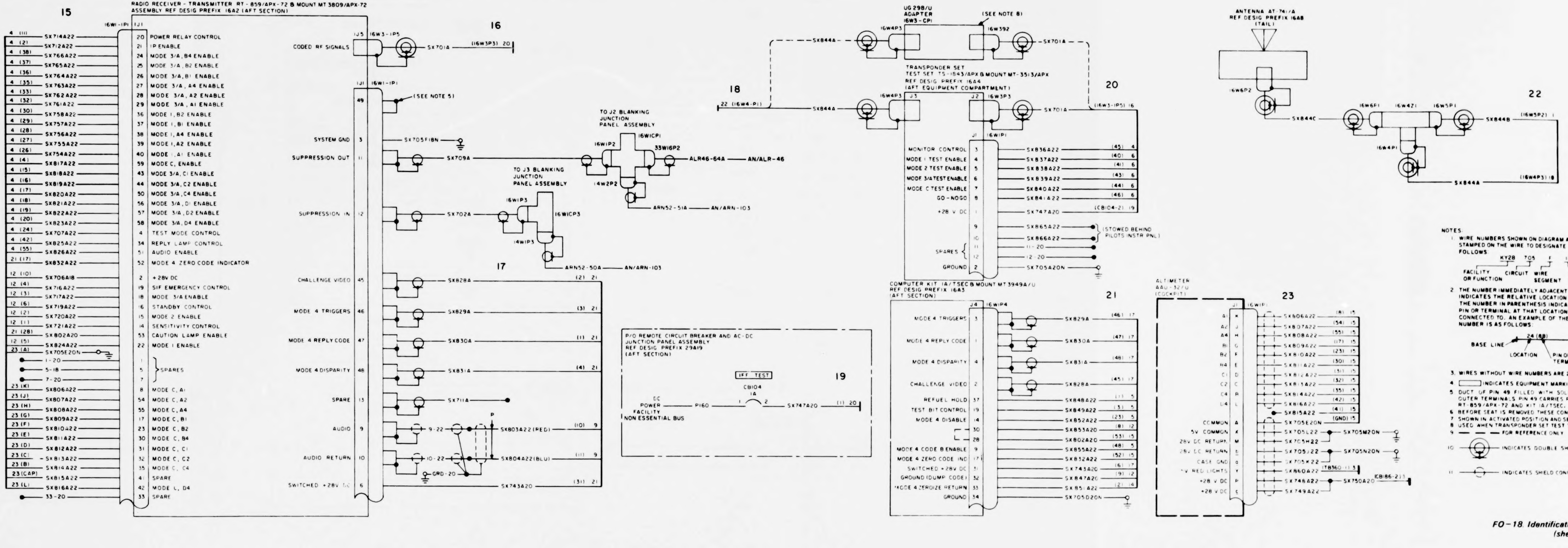
3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. — — — REFERENCE ONLY, REFER TO TM55-1510-213-23
6. ⊖ INDICATES SHIELD CONNECTION

FO-17. Radar altimeter facility wiring diagram.


ANTENNA AT-741/A
REF DESIG PREFIX 16A7
(NOSE)
16W5P2
16W7P2
16W7P1
SX868A
SX844B
(16W5P1) 22
1
NOSE GEAR DOWN LOCK SWITCH
(NOSE WHEEL WELL)
2
SX847B20
(9) 12
P/O CAUTION LIGHTS PANEL ASSEMBLY
(COCKIT, PILOT'S INSTRUMENT PANEL)
3
IFF
SX853B20
(8) 12
(COCKPIT, BACK OF PILOT'S INSTRUMENT PANEL)
TB360
SX860A22
(Y) 23
P/O COCKPIT CIRCUIT BREAKER PANEL ASSEMBLY
REF DESIG PREFIX 29A20 (COCKPIT)
ALTM
CB186
1A
SX750A20
(P)8 (S) 23
SX750B20
TO EMER BUS
P/O TRANSPONDER SET CONTROL C-6280( )(P)/APX
REF DESIG PREFIX 16A1
(COCKPIT, LOWER CONSOLE)
J201
16W1P201
4
POWER RELAY CONTROL
IP ENABLE
MODE 3/A, B4 ENABLE
MODE 3/A, B2 ENABLE
MODE 3/A, B1 ENABLE
MODE 3/A, A4 ENABLE
MODE 3/A, A2 ENABLE
MODE 3/A, A1 ENABLE
MODE 1, B2 ENABLE
MODE 1, B1 ENABLE
MODE 1, A4 ENABLE
MODE 1, A2 ENABLE
MODE 1, A1 ENABLE
MODE C ENABLE
MODE 3/A, C1 ENABLE
MODE 3/A, C2 ENABLE
MODE 3/A, C4 ENABLE
MODE 3/A, D1 ENABLE
MODE 3/A, D2 ENABLE
MODE 3/A, D4 ENABLE
TEST MODE CONTROL
REPLY LAMP CONTROL
AUDIO ENABLE
SPARES
REFUEL HOLD
TEST BIT CONTROL
MODE 4 DISABLE
MODE 4 CODE B ENABLE
SIF EMERGENCY CONTROL
MODE 3/A ENABLE
STANDBY CONTROL
MODE 2 ENABLE
SENSITIVITY CONTROL
28V DC
MODE 1 ENABLE
+28 V DC
MODE 4 ZEROIZE RETURN
MONITOR CONTROL
5
P/O TRANSPONDER SET CONTROL C-6280( )(P)/APX
REF DESIG PREFIX 16A1
(COCKPIT, LOWER CONSOLE)
J201
16W1P201
6
MODE 1 TEST ENABLE
MODE 2 TEST ENABLE
MODE 3/A TEST ENABLE
MODE C TEST ENABLE
GO-NO GO
SPARE
SYSTEM GND
MODE 4 CODE A/B COMMON
LIGHT POWER RET
SX837A22
SX838A22
SX839A22
SX840A22
SX841A22
54 - 20
SX705B18N
SX705G20N
SX736A20N
P/O COCKPIT CIRCUIT BREAKER PANEL ASSEMBLY
REF DESIG PREFIX 29A20
(COCKPIT)
IFF DC
CB103
10A
7
DC POWER FACILITY
PICF18
1N3891
PICG18
SX706B14
(10) 12
SX706C18
PV726C18
PV726A18
SX741A20
(11) 14
8
PV723E18
16A5P1
16W2J1
16W2J2
16A6P2
P/O SLOPING CONSOLE
(COCKPIT)
(SEE NOTE 6)
PILOT'S EJECTION SWITCH
REF DESIG PREFIX 16A5S1
(COCKPIT, PILOT'S SEAT)
(SEE NOTE 7)
OBSERVER'S EJECTION SWITCH
REF DESIG PREFIX 16A6S1
(COCKPIT, OBSERVER'S SEAT)
(SEE NOTE 7)
P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX/29A1
(FORWARD SECTION)
9
TB136
C6533/ARC
SX803B22
GRD-20
SX803A22(RED)
SX804A22(BLU)
AN/ARN-82
RN528BA22(BLU)
C6533-43A20N
P/O INTERIOR AND EXTERIOR LIGHTS PANEL ASSEMBLY (FORWARD SECTION)
10
TB330
SX834A20
TB327
SX768A22
P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
TB308
P/O AFT RADIO JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A3
(MID SECTION)
TB127
EMER BUS.
P/O RADIO/IFF RELAY PANEL ASSEMBLY
REF DESIG PREFIX 29A21
(MID SECTION)
11
ZEROIZE RELAY NO. 1
K1
ZEROIZE RELAY NO. 2
K2
SX742A16N
SX742G20N
SX742H20N
13
12
TB259
14
TB260
THIS SHEET CONTAINS STATIONS 1 THRU 14
EL2ZT204

FO-18. Identification facility wiring diagram (sheet 1 of 2).

THIS SHEET CONTAINS
STATIONS 15 THRU 23


15
RADIO RECEIVER - TRANSMITTER RT - 859/APX-72 B MOUNT MT 3809/APX-72
ASSEMBLY REF DESIG PREFIX 16A2 (AFT SECTION)
16W1-1P1
1J1
4 (11) SX714A22 20 POWER RELAY CONTROL
4 (2) SX712A22 21 IP ENABLE
4 (38) SX766A22 24 MODE 3/A, B4 ENABLE
4 (37) SX765A22 25 MODE 3/A, B2 ENABLE
4 (36) SX764A22 26 MODE 3/A, B1 ENABLE
4 (35) SX763A22 27 MODE 3/A, A4 ENABLE
4 (33) SX762A22 28 MODE 3/A, A2 ENABLE
4 (32) SX761A22 29 MODE 3/A, A1 ENABLE
4 (30) SX758A22 36 MODE 1, B2 ENABLE
4 (29) SX757A22 37 MODE 1, B1 ENABLE
4 (28) SX756A22 38 MODE 1, A4 ENABLE
4 (27) SX755A22 39 MODE 1, A2 ENABLE
4 (26) SX754A22 40 MODE 1, A1 ENABLE
4 (4) SX817A22 59 MODE C, ENABLE
4 (15) SX818A22 43 MODE 3/A, C1 ENABLE
4 (16) SX819A22 44 MODE 3/A, C2 ENABLE
4 (17) SX820A22 50 MODE 3/A, C4 ENABLE
4 (18) SX821A22 56 MODE 3/A, D1 ENABLE
4 (19) SX822A22 57 MODE 3/A, D2 ENABLE
4 (20) SX823A22 58 MODE 3/A, D4 ENABLE
4 (24) SX707A22 4 TEST MODE CONTROL
4 (42) SX825A22 34 REPLY LAMP CONTROL
4 (55) SX826A22 51 AUDIO ENABLE
21 (17) SX832A22 52 MODE 4 ZERO CODE INDICATOR
12 (10) SX706A18 2 +28V DC
12 (4) SX716A22 19 SIF EMERGENCY CONTROL
12 (3) SX717A22 18 MODE 3/A ENABLE
12 (6) SX719A22 16 STANDBY CONTROL
12 (2) SX720A22 15 MODE 2 ENABLE
12 (1) SX721A22 14 SENSITIVITY CONTROL
21 (28) SX802A20 53 CAUTION LAMP ENABLE
12 (5) SX824A22 22 MODE 1 ENABLE
23 (A) SX705E20N
1-20 1
5-18 5 SPARES
7-20 7
23 (K) SX806A22 8 MODE C, A1
23 (J) SX807A22 54 MODE C, A2
23 (H) SX808A22 55 MODE C, A4
23 (G) SX809A22 17 MODE C, B1
23 (F) SX810A22 23 MODE C, B2
23 (E) SX811A22 30 MODE C, B4
23 (D) SX812A22 31 MODE C, C1
23 (C) SX813A22 32 MODE C, C2
23 (B) SX814A22 35 MODE C, C4
23 (CAP) SX815A22 41 SPARE
23 (L) SX816A22 42 MODE C, D4
33-20 33 SPARE
16
CODED RF SIGNALS 1J5 16W3-1P5 SX701A (16W3P3) 20
1J1 16W1-1P1
49 (SEE NOTE 5)
SYSTEM GND 3 SX705F18N
SUPPRESSION OUT 11 SX709A
SUPPRESSION IN 12 SX702A
CHALLENGE VIDEO 45 SX828A (2) 21
MODE 4 TRIGGERS 46 SX829A (3) 21
MODE 4 REPLY CODE 47 SX830A (1) 21
MODE 4 DISPARITY 48 SX831A (4) 21
SPARE 13 SX711A
AUDIO 9 9-22 SX803A22(RED) (10) 9
AUDIO RETURN 10 10-22 SX804A22(BLU) (11) 9
P
GRD-20
SWITCHED +28V DC 6 SX743A20 (31) 21
17
TO J2 BLANKING JUNCTION PANEL ASSEMBLY
16W1P2
16W1CP1
33W16P2
ALR46-64A AN/ALR-46
14W2P2
ARN52-51A AN/ARN-103
TO J3 BLANKING JUNCTION PANEL ASSEMBLY
16W1P3
16W1CP3
14W1P3
ARN52-50A AN/ARN-103
P/O REMOTE CIRCUIT BREAKER AND AC-DC
JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
IFF TEST
CB104
1A
19
DC POWER FACILITY NON ESSENTIAL BUS
P160
1
2
SX747A20 (1) 20
18
22 (16W4-P1)
SX844A
UG 298/U
ADAPTER
16W3-CP1
(SEE NOTE 8)
16W4P3
16W392
SX701A
TRANSPONDER SET
TEST SET TS-1843/APX B MOUNT MT-3513/APX
REF DESIG PREFIX 16A4
(AFT EQUIPMENT COMPARTMENT)
20
16W4P3 J3
J2 16W3P3
SX701A (16W3-1P5) 16
J1 16W1P1
MONITOR CONTROL 3 SX836A22 (45) 4
MODE 1 TEST ENABLE 4 SX837A22 (40) 6
MODE 2 TEST ENABLE 5 SX838A22 (41) 6
MODE 3/A TEST ENABLE 6 SX839A22 (43) 6
MODE C TEST ENABLE 7 SX840A22 (44) 6
GO-NOGO 8 SX841A22 (46) 6
+28 V DC 1 SX747A20 (CB104-2) 19
9 SX865A22
10 SX866A22 (STOWED BEHIND PILOTS INSTR PNL)
SPARES 11 11-20
12 12-20
GROUND 2 SX705A20N
COMPUTER KIT 1A/TSEC B MOUNT MT 3949A/U
REF DESIG PREFIX 16A3
(AFT SECTION)
21
J4 16W1P4
MODE 4 TRIGGERS 3 SX829A (46) 17
MODE 4 REPLY CODE 1 SX830A (47) 17
MODE 4 DISPARITY 4 SX831A (48) 17
CHALLENGE VIDEO 2 SX828A (45) 17
REFUEL HOLD 37 SX848A22 (1) 5
TEST BIT CONTROL 19 SX849A22 (3) 5
MODE 4 DISABLE 14 SX852A22 (23) 5
30 SX853A20 (8) 12
28 SX802A20 (53) 15
MODE 4 CODE B ENABLE 9 SX855A22 (48) 5
MODE 4 ZERO CODE IND 17 SX832A22 (52) 15
SWITCHED +28V DC 31 SX743A20 (6) 17
GROUND (DUMP CODE) 32 SX847A20 (9) 12
MODE 4 ZEROIZE RETURN 33 SX851A22 (2) 14
GROUND 34 SX705D20N
ANTENNA AT-741/A
REF DESIG PREFIX 16A8
(TAIL)
16W6P2
SX844C
16W6P1
16W4Z1
16W5P1
SX844B (16W5P2) 1
16W4P1
SX844A (16W4P3) 18
22
ALTIMETER
AAU-32/U
(COCKPIT)
23
J1 16W1P1
A1 K SX806A22 (8) 15
A2 J SX807A22 (54) 15
A4 H SX808A22 (55) 15
B1 G SX809A22 (17) 15
B2 F SX810A22 (23) 15
B4 E SX811A22 (30) 15
C1 D SX812A22 (31) 15
C2 C SX813A22 (32) 15
C4 B SX814A22 (35) 15
D4 L SX816A22 (42) 15
SX815A22 (41) 15
COMMON A SX705E20N (GND) 15
5V COMMON K SX705L22 SX705M20N
28V DC RETURN M SX705H22
28V DC RETURN b SX705J22 SX705N20N
CASE GND a SX705K22
5V RED LIGHTS Y SX860A22 (TB360-1) 3
+28 V DC P SX748A22 SX750A20 (CB186-2) 3
+28 V DC c SX749A22

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   KY28 — FACILITY OR FUNCTION
   705 — CIRCUIT
   F — WIRE SEGMENT
   18 — WIRE SIZE
   N — GROUND DESIGNATOR

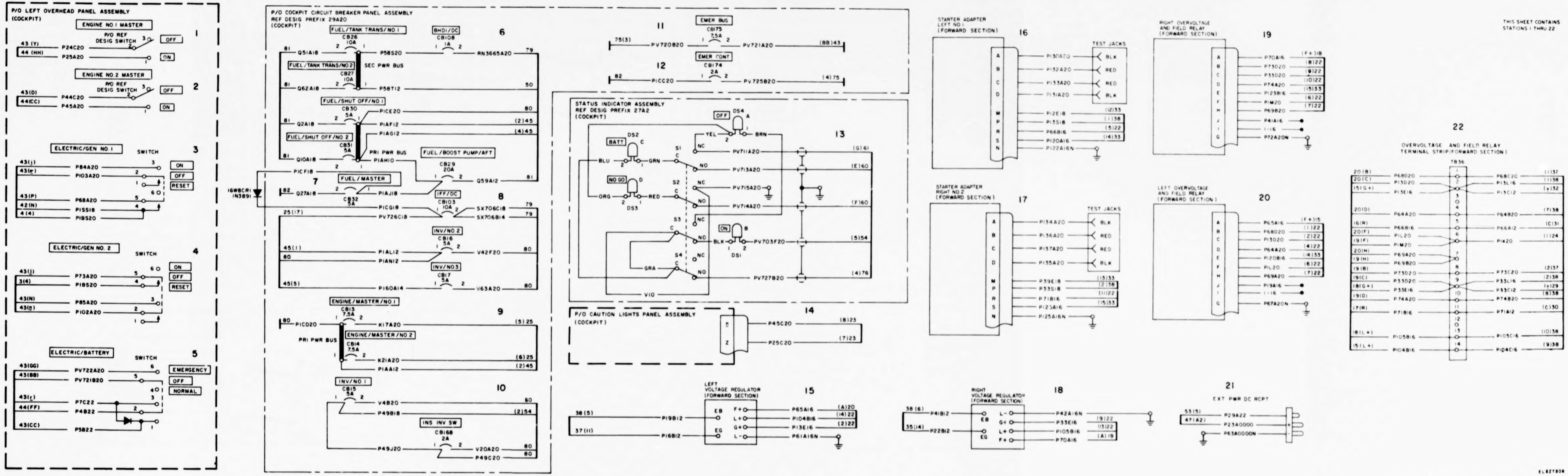
2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

   24 (BB)
   BASE LINE
   LOCATION
   PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. DUCT OF PIN 49 FILLED WITH SOLDER TO SHORT INNER AND OUTER TERMINALS. PIN 49 CARRIES PRIME POWER FOR RT-859/APX-72 AND KIT 1A/TSEC.
6. BEFORE SEAT IS REMOVED THESE CONNECTORS MUST BE DISCONNECTED
7. SHOWN IN ACTIVATED POSITION AND SEAT IN PLACE MOUNTED ON SEAT GUN
8. USED WHEN TRANSPONDER SET TEST TS-1843(*) APX IS NOT INSTALLED
9. — — — FOR REFERENCE ONLY
10. ◎ INDICATES DOUBLE SHIELDED COAXIAL CABLE
11. ⊖ INDICATES SHIELD CONNECTION

EL8ZT208

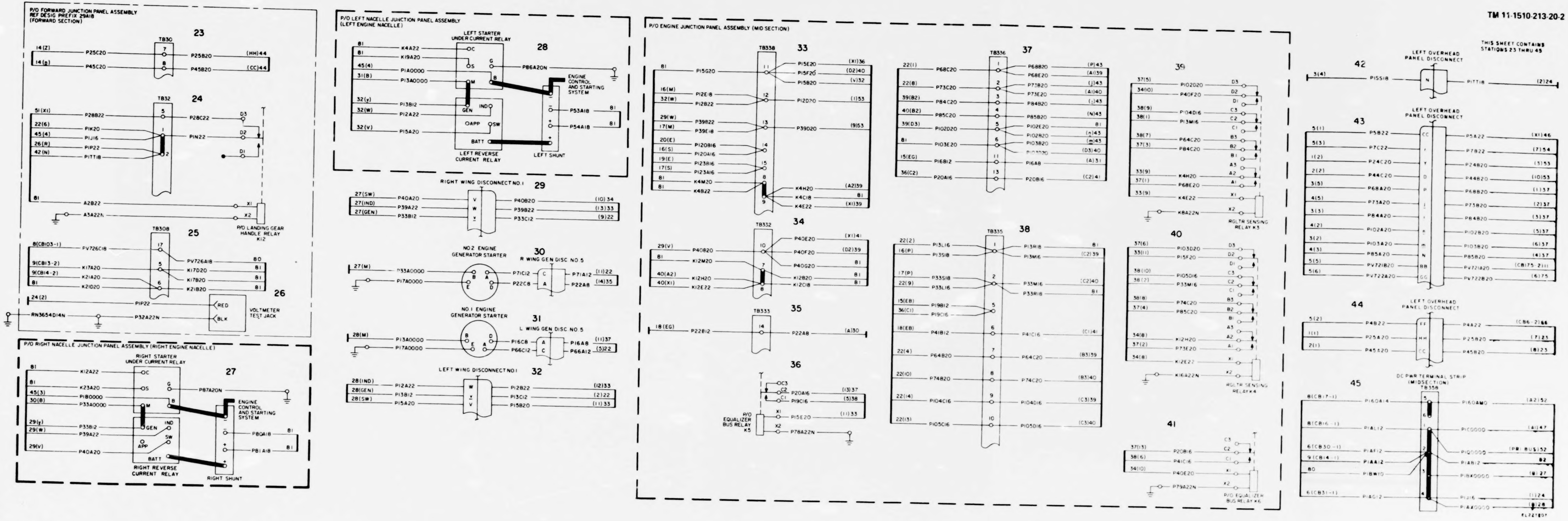
FO-18. Identification facility wiring diagram (sheet 2 of 2).


P/O LEFT OVERHEAD PANEL ASSEMBLY
(COCKPIT)
ENGINE NO.1 MASTER
1
P/O REF DESIG SWITCH
43 (Y)
44 (HH)
P24C20
P25A20
OFF
ON
ENGINE NO.2 MASTER
2
P/O REF DESIG SWITCH
43(D)
44(CC)
P44C20
P45A20
OFF
ON
ELECTRIC/GEN NO.1
SWITCH
3
43(i)
43(m)
43(P)
42(N)
4(4)
P84A20
P103A20
P68A20
P155I8
P1BS20
ON
OFF
RESET
ELECTRIC/GEN NO. 2
SWITCH
4
43(j)
3(4)
43(N)
43(n)
P73A20
P1BS20
P85A20
P102A20
ON
OFF
RESET
ELECTRIC/BATTERY
SWITCH
5
43(GG)
43(BB)
43(r)
44(FF)
43(CC)
PV722A20
PV721B20
P7C22
P4B22
P5B22
EMERGENCY
OFF
NORMAL
P/O COCKPIT CIRCUIT BREAKER PANEL ASSEMBLY
REF DESIG PREFIX 29A20
(COCKPIT)
6
FUEL/TANK TRANS/NO.1
CB26 10A
BHDI/DC
CB108 1A
81
Q51A18
P58S20
RN3665A20
79
FUEL/TANK TRANS/NO.2
SEC PWR BUS
CB27 10A
Q62A18
P58T12
50
FUEL/SHUT OFF/NO.1
CB30 5A
P1CE20
80
Q2A18
P1AF12
(2)45
P1AG12
(4)45
FUEL/SHUT OFF/NO.2
CB31 5A
PRI PWR BUS
Q10A18
P1AH10
FUEL/BOOST PUMP/AFT
CB29 20A
Q59A12
81
P1CF18
7
FUEL/MASTER
16W8CR1
1N3891
82
Q27A18
CB32 5A
P1AJ18
IFF/DC
8
CB103 10A
P1CG18
SX706C18
79
25(17)
PV726C18
SX706B14
79
INV/NO.2
CB16 5A
45(1)
P1AL12
V42F20
80
80
P1AN12
INV/NO.3
CB17 5A
45(5)
P160A14
V63A20
80
ENGINE/MASTER/NO.1
9
CB13 7.5A
80
P1CD20
K17A20
(5) 25
PRI PWR BUS
ENGINE/MASTER/NO.2
CB14 7.5A
K21A20
(6)25
P1AA12
(2)45
INV/NO.1
10
CB15 5A
V4B20
80
P49B18
(2)54
INS INV SW
CB168 2A
P49J20
V20A20
80
P49C20
80
11
EMER BUS
CB175 7.5A
75(3)
PV720B20
PV721A20
(BB)43
12
EMER CONT
CB174 2A
82
P1CC20
PV725B20
(4)75
STATUS INDICATOR ASSEMBLY
REF DESIG PREFIX 27A2
(COCKPIT)
13
OFF
DS4
A
YEL
BRN
BATT
DS2
C
BLU
GRN
S1
NC
NO
PV711A20
(G)61
PV713A20
(E)60
NO GO
D
ORG
RED
DS3
S2
PV715A20
PV714A20
(F)60
S3
ON
B
BLK
DS1
PV703F20
(5)54
S4
GRA
PV727B20
(4)76
VIO
P/O CAUTION LIGHTS PANEL ASSEMBLY
(COCKPIT)
14
n
Z
P45C20
(8)23
P25C20
(7)23
LEFT VOLTAGE REGULATOR (FORWARD SECTION)
15
38(5)
37(11)
P19B12
P16B12
EB
EG
F+
L+
G+
L-
P65A16
(A)20
P104B16
(14)22
P13E16
(2)22
P61A16N
STARTER ADAPTER LEFT NO.1 (FORWARD SECTION)
16
TEST JACKS
A
B
C
D
M
P
R
S
N
P130A20
BLK
P132A20
RED
P133A20
RED
P131A20
BLK
P12E18
(12)33
P135I8
(1)38
P66B16
(5)22
P120A16
(14)33
P122A16N
STARTER ADAPTER RIGHT NO.2 (FORWARD SECTION)
17
TEST JACKS
P134A20
BLK
P136A20
RED
P137A20
RED
P135A20
BLK
P39E18
(13)33
P33S18
(2)38
P71B16
(11)22
P123A16
(15)33
P125A16N
RIGHT VOLTAGE REGULATOR (FORWARD SECTION)
18
38(6)
35(14)
P41B12
P22B12
EB
EG
L-
G+
L+
F+
P42A16N
P33E16
(9)22
P105B16
(13)22
P70A16
(A)19
RIGHT OVERVOLTAGE AND FIELD RELAY (FORWARD SECTION)
19
A
B
C
D
E
F
H
J
I
G
P70A16
(F+)18
P73D20
(8)22
P33D20
(9)22
P74A20
(10)22
P123B16
(15)33
P1M20
(6)22
P69B20
(7)22
P41A16
1-16
P72A20N
LEFT OVERVOLTAGE AND FIELD RELAY (FORWARD SECTION)
20
P65A16
(F+)15
P68D20
(1)22
P13D20
(2)22
P64A20
(4)22
P120B16
(4)33
P1L20
(6)22
P69A20
(7)22
P19A16
1-16
P67A20N
21
EXT PWR DC RCPT
53(5)
47(A2)
P29A22
P23A0000
P63A0000N
+
-
22
OVERVOLTAGE AND FIELD RELAY TERMINAL STRIP (FORWARD SECTION)
TB36
20(B)
20(C)
15(G+)
20(D)
16(R)
20(F)
19(F)
20(H)
19(H)
19(B)
19(C)
18(G+)
19(D)
17(R)
18(L+)
15(L+)
P68D20
P13D20
P13E16
P64A20
P66B16
P1L20
P1M20
P69A20
P69B20
P73D20
P33D20
P33E16
P74A20
P71B16
P105B16
P104B16
1
2
3
4
5
6
7
8
9
10
11
12
13
14
P68C20
P13L16
P13C12
P64B20
P66A12
P1K20
P73C20
P33L16
P33C12
P74B20
P71A12
P105C16
P104C16
(1)37
(1)38
(v)32
(7)38
(C)31
(1)24
(2)37
(2)38
(v)29
(8)38
(C)30
(10)38
(9)38

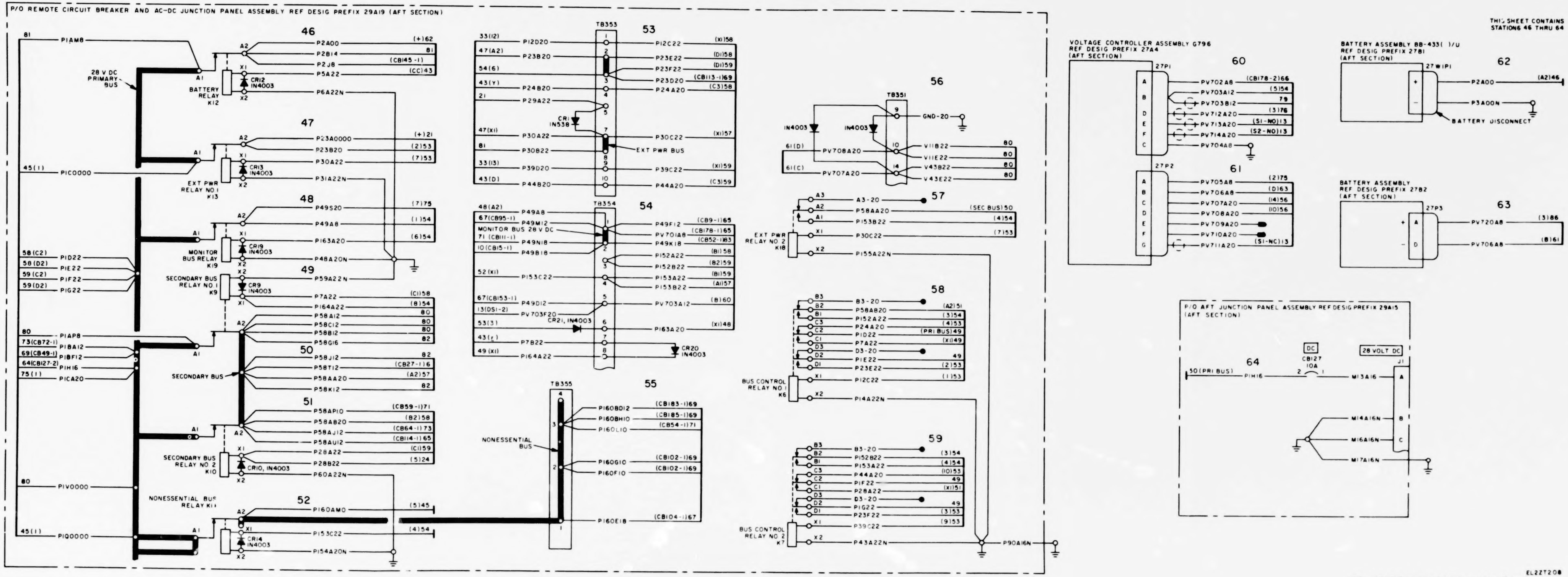
THIS SHEET CONTAINS STATIONS 1 THRU 22

EL8ZT806

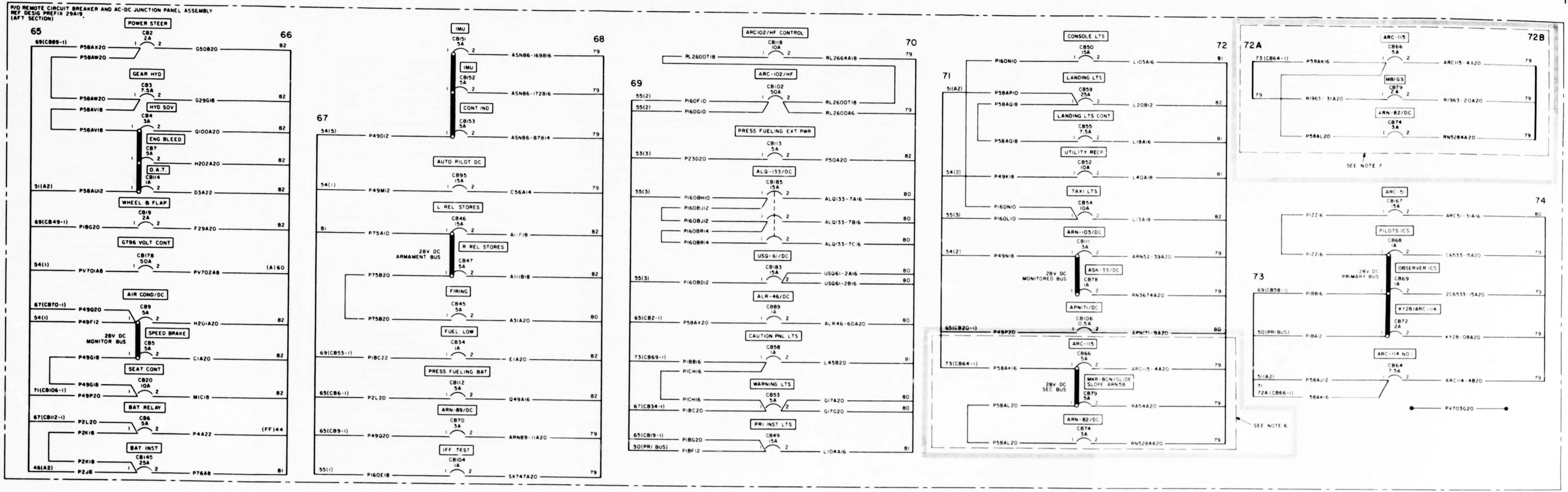
FO-19. DC power facility wiring diagram (sheet 1 of 5).


THIS SHEET CONTAINS STATIONS 23 THRU 45
P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
(FORWARD SECTION)
23
TB30
24
TB32
P/O LANDING GEAR HANDLE RELAY K12
25
TB308
26
VOLTMETER TEST JACK
RED
BLK
P/O RIGHT NACELLE JUNCTION PANEL ASSEMBLY (RIGHT ENGINE NACELLE)
RIGHT STARTER UNDER CURRENT RELAY
27
ENGINE CONTROL AND STARTING SYSTEM
RIGHT REVERSE CURRENT RELAY
RIGHT SHUNT
P/O LEFT NACELLE JUNCTION PANEL ASSEMBLY (LEFT ENGINE NACELLE)
LEFT STARTER UNDER CURRENT RELAY
28
ENGINE CONTROL AND STARTING SYSTEM
LEFT REVERSE CURRENT RELAY
LEFT SHUNT
RIGHT WING DISCONNECT NO.1
29
NO.2 ENGINE GENERATOR STARTER
30
R WING GEN DISC NO 5
NO.1 ENGINE GENERATOR STARTER
31
L WING GEN DISC NO 5
LEFT WING DISCONNECT NO.1
32
P/O ENGINE JUNCTION PANEL ASSEMBLY (MID SECTION)
33
TB338
34
TB332
35
TB333
36
P/O EQUALIZER BUS RELAY K5
37
TB336
38
TB335
39
RGLTR SENSING RELAY K3
40
RGLTR SENSING RELAY K4
41
P/O EQUALIZER BUS RELAY K6
42
LEFT OVERHEAD PANEL DISCONNECT
43
LEFT OVERHEAD PANEL DISCONNECT
44
LEFT OVERHEAD PANEL DISCONNECT
45
DC PWR TERMINAL STRIP (MIDSECTION)
TB358
EL227807

FO-19. DC power facility wiring diagram (sheet 2 of [illegible]).


THIS SHEET CONTAINS STATIONS 46 THRU 64
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A19 (AFT SECTION)
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
28 V DC PRIMARY BUS
BATTERY RELAY K12
EXT PWR RELAY NO 1 K13
MONITOR BUS RELAY K19
SECONDARY BUS RELAY NO 1 K9
SECONDARY BUS
SECONDARY BUS RELAY NO 2 K10
NONESSENTIAL BUS RELAY K11
NONESSENTIAL BUS
TB353
TB354
TB355
TB351
EXT PWR BUS
MONITOR BUS 28 V DC
EXT PWR RELAY NO 2 K18
BUS CONTROL RELAY NO 1 K6
BUS CONTROL RELAY NO 2 K7
GND-20
VOLTAGE CONTROLLER ASSEMBLY G796 REF DESIG PREFIX 27A4 (AFT SECTION)
27P1
27P2
BATTERY ASSEMBLY BB-433( )/U REF DESIG PREFIX 27B1 (AFT SECTION)
27W1P1
BATTERY DISCONNECT
BATTERY ASSEMBLY REF DESIG PREFIX 27B2 (AFT SECTION)
27P3
P/O AFT JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A15 (AFT SECTION)
DC
CB127 10A
28 VOLT DC
J1
P1AM8
P1C0000
P1V0000
P1Q0000
P2A00
P3A00N
PV720A8
PV706A8
P90A16N
M13A16
M14A16N
M16A16N
M17A16N
50 (PRI BUS)
P1H16
EL22T208

FO-19. DC power facility wiring diagram (sheet 3 of 5).

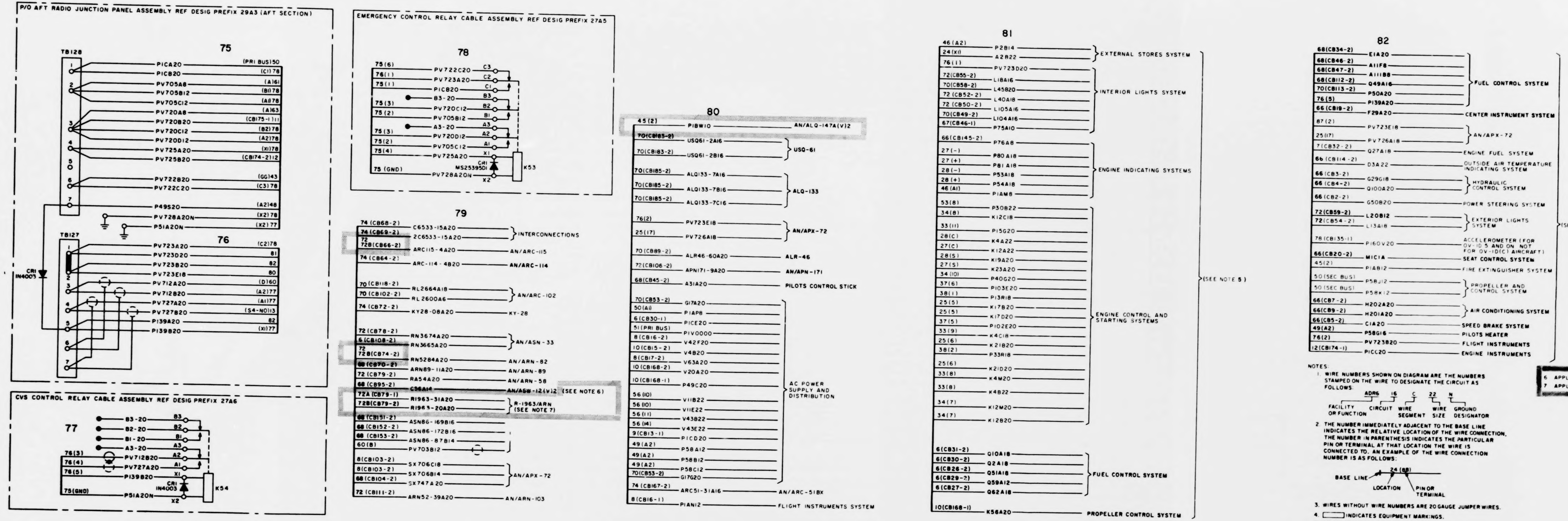

P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
65
66
POWER STEER
CB2 2A
69(CB89-1)
P58AX20
P58AW20
G50B20
GEAR HYD
CB3 7.5A
P58AW20
P58AV18
G29G18
HYD SOV
CB4 3A
P58AV18
Q100A20
ENG BLEED
CB7 5A
H202A20
O.A.T.
CB114 1A
51(A2)
P58AU12
D3A22
WHEEL & FLAP
CB19 2A
69(CB49-1)
P1BG20
F29A20
G796 VOLT CONT
CB178 50A
54(1)
PV701A8
PV702A8
(A)60
AIR COND/DC
CB9 5A
67(CB70-1)
P49Q20
54(1)
P49F12
H201A20
28V DC MONITOR BUS
SPEED BRAKE
CB5 5A
P49G18
C1A20
SEAT CONT
CB20 10A
P49G18
71(CB106-1)
P49P20
M1C18
BAT RELAY
CB6 5A
67(CB112-1)
P2L20
P2K18
P4A22
(FF)44
BAT INST
CB145 25A
P2K18
46(A2)
P2J8
P76A8
82
81
67
68
IMU
CB151 5A
ASN86-169B16
IMU
CB152 5A
ASN86-172B16
CONT IND
CB153 5A
54(5)
P49D12
ASN86-87B14
AUTO PILOT DC
CB95 15A
54(1)
P49M12
C56A14
L REL STORES
CB46 15A
81
P75A10
A11F18
28V DC ARMAMENT BUS
R REL STORES
CB47 5A
P75B20
A111B18
FIRING
CB45 5A
P75B20
A31A20
FUEL LOW
CB34 1A
69(CB53-1)
P1BC22
E1A20
PRESS FUELING BAT
CB112 5A
65(CB6-1)
P2L20
Q49A16
ARN-89/DC
CB70 3A
65(CB9-1)
P49Q20
ARN89-11A20
IFF TEST
CB104 1A
55(1)
P160E18
SX747A20
79
80
69
70
ARC102/HF CONTROL
CB118 10A
RL2600T18
RL2664A18
ARC-102/HF
CB102 50A
55(2)
P160F10
55(2)
P160G10
RL2600T18
RL2600A6
PRESS FUELING EXT PWR
CB113 5A
53(3)
P23D20
P50A20
ALQ-133/DC
CB185 15A
55(3)
P160BH10
P160BJ12
P160BJ12
P160BR14
P160BR14
ALQ133-7A16
ALQ133-7B16
ALQ133-7C16
USQ-61/DC
CB183 15A
55(3)
P160BD12
USQ61-2A16
USQ61-2B16
ALR-46/DC
CB89 1A
65(CB2-1)
P58AX20
ALR46-60A20
CAUTION PNL LTS
CB58 1A
73(CB69-1)
P1BB16
P1CH16
L45B20
WARNING LTS
CB53 5A
P1CH16
67(CB34-1)
P1BC20
G17A20
G17G20
PRI INST LTS
CB49 15A
65(CB19-1)
P1BG20
50(PRI BUS)
P1BF12
L104A16
71
72
CONSOLE LTS
CB50 15A
P160N10
L105A16
LANDING LTS
CB59 25A
51(A2)
P58AP10
P58AQ18
L20B12
LANDING LTS CONT
CB55 7.5A
P58AQ18
L18A16
UTILITY RECP
CB52 10A
54(2)
P49K18
L40A18
TAXI LTS
CB54 10A
P160N10
55(3)
P160L10
L13A18
ARN-103/DC
CB111 3A
54(2)
P49N18
ARN52-39A20
28V DC MONITORED BUS
ASN-33/DC
CB78 1A
RN3674A20
APN171/DC
CB106 0.5A
65(CB20-1)
P49P20
APN171-9A20
ARC-115
CB66 5A
73(CB64-1)
P58AK16
ARC115-4A20
28V DC SEC BUS
MKR-BCN/GLIDE SLOPE ARN58
CB79 5A
P58AL20
RA54A20
ARN-82/DC
CB74 3A
P58AL20
RN5284A20
SEE NOTE 6
72A
72B
ARC-115
CB66 5A
73(CB64-1)
P58AK16
ARC115-4A20
MB/GS
CB79 2A
79
R1963-31A20
R1963-20A20
ARN-82/DC
CB74 3A
P58AL20
RN5284A20
SEE NOTE 7
73
74
ARC-51
CB167 15A
P1ZZ16
ARC51-31A16
PILOTS ICS
CB68 1A
P1ZZ16
C6533-15A20
28V DC PRIMARY BUS
OBSERVER ICS
CB69 1A
69(CB58-1)
P1BB16
2C6533-15A20
KY28/ARC-114
CB72 2A
50(PRI BUS)
P1BA12
KY28-08A20
ARC-114 NO.1
CB64 7.5A
51(A2)
P58AJ12
71
72A(CB66-1)
58AK16
ARC114-4B20
PV703G20

THIS SHEET CONTAINS STATIONS 65 THRU 74

EL2Z7209

FO-19. DC power facility wiring diagram (sheet 4 of 5).

THIS SHEET CONTAINS
STATIONS 75 THRU 82


P/O AFT RADIO JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A3 (AFT SECTION)
75
TB128
P1CA20 (PRI BUS)50
P1CB20 (C1)78
PV705A8 (A)61
PV705B12 (B1)78
PV705C12 (A1)78
PV720A8 (A)63
PV720B20 (CB175-1)11
PV720C12 (B2)78
PV720D12 (A2)78
PV725A20 (X1)78
PV725B20 (CB174-2)12
PV722B20 (GG)43
PV722C20 (C3)78
P49S20 (A2)48
PV728A20N (X2)78
P51A20N (X2)77
76
TB127
PV723A20 (C2)78
PV723D20 81
PV723B20 82
PV723E18 80
PV712A20 (D)60
PV712B20 (A2)77
PV727A20 (A1)77
PV727B20 (S4-NO)13
P139A20 82
P139B20 (X1)77
CR1
1N4003
CVS CONTROL RELAY CABLE ASSEMBLY REF DESIG PREFIX 27A6
77
B3-20 B3
B2-20 B2
B1-20 B1
A3-20 A3
76(3) PV712B20 A2
76(4) PV727A20 A1
76(5) P139B20 X1
CR1
1N4003
75(GND) P51A20N X2
K54
EMERGENCY CONTROL RELAY CABLE ASSEMBLY REF DESIG PREFIX 27A5
78
75(6) PV722C20 C3
76(1) PV723A20 C2
75(1) P1CB20 C1
B3-20 B3
75(3) PV720C12 B2
75(2) PV705B12 B1
A3-20 A3
75(3) PV720D12 A2
75(2) PV705C12 A1
75(4) PV725A20 X1
CR1
MS25395D1
75 (GND) PV728A20N X2
K53
79
74 (CB68-2) C6533-15A20
74 (CB69-2) 2C6533-15A20 INTERCONNECTIONS
72
72B(CB66-2) ARC115-4A20 AN/ARC-115
74 (CB64-2) ARC-114-4B20 AN/ARC-114
70 (CB118-2) RL2664A18
70 (CB102-2) RL2600A6 AN/ARC-102
74 (CB72-2) KY28-08A20 KY-28
72 (CB78-2) RN3674A20
6 (CB108-2) RN3665A20 AN/ASN-33
72
72B(CB74-2) RN5284A20 AN/ARN-82
68 (CB70-2) ARN89-11A20 AN/ARN-89
72 (CB79-2) RA54A20 AN/ARN-58
68 (CB95-2) C56A14 AN/ASW-12(V)2 (SEE NOTE 6)
72A (CB79-1) R1963-31A20
72B(CB79-2) R1963-20A20 R-1963/ARN (SEE NOTE 7)
68 (CB151-2) ASN86-169B16
68 (CB152-2) ASN86-172B16
68 (CB153-2) ASN86-87B14
60(B) PV703B12
8(CB103-2) SX706C18
8(CB103-2) SX706B14
68 (CB104-2) SX747A20 AN/APX-72
72 (CB111-2) ARN52-39A20 AN/ARN-103
80
45(2) P1BW10 AN/ALQ-147A(V)2
70(CB183-2) USQ61-2A16
70(CB183-2) USQ61-2B16 USQ-61
70(CB185-2) ALQ133-7A16
70(CB185-2) ALQ133-7B16 ALQ-133
70(CB185-2) ALQ133-7C16
76(2) PV723E18
25(17) PV726A18 AN/APX-72
70 (CB89-2) ALR46-60A20 ALR-46
72(CB106-2) APN171-9A20 AN/APN-171
68(CB45-2) A31A20 PILOTS CONTROL STICK
70(CB53-2) G17A20
50(A1) P1AP8
6(CB30-1) P1CE20
51(PRI BUS) P1V0000
8(CB16-2) V42F20
10(CB15-2) V4B20
8(CB17-2) V63A20
10 (CB168-2) V20A20
10(CB168-1) P49C20
56(10) V11B22
56(10) V11E22
56(11) V43B22
56(14) V43E22
9(CB13-1) P1CD20
49(A2) P58A12
49(A2) P58B12
49(A2) P58C12
70(CB53-2) G17G20
AC POWER SUPPLY AND DISTRIBUTION
74 (CB167-2) ARC51-31A16 AN/ARC-51BX
8(CB16-1) P1AN12 FLIGHT INSTRUMENTS SYSTEM
81
46 (A2) P2B14
24 (X1) A2B22 EXTERNAL STORES SYSTEM
76(1) PV723D20
72(CB55-2) L18A16
70(CB58-2) L45B20
72 (CB52-2) L40A18 INTERIOR LIGHTS SYSTEM
72 (CB50-2) L105A16
70(CB49-2) L104A16
67(CB46-1) P75A10
66(CB145-2) P76A8
27(-) P80A18
27(+) P81A18
28(-) P53A18 ENGINE INDICATING SYSTEMS
28(+) P54A18
46(A1) P1AM8
53(8) P30B22
34(8) K12C18
33(11) P15G20
28(C) K4A22
27(C) K12A22
28(S) K19A20
27(S) K23A20
34(10) P40G20
37(6) P103E20
38(1) P13R18
25(5) K17B20
25(5) K17D20 ENGINE CONTROL AND STARTING SYSTEMS
37(5) P102E20
33(9) K4C18
25(6) K21B20
38(2) P33R18
25(6) K21D20
33(8) K4M20
33(8) K4B22
34(7) K12M20
34(7) K12B20
6(CB31-2) Q10A18
6(CB30-2) Q2A18
6(CB26-2) Q51A18 FUEL CONTROL SYSTEM
6(CB29-2) Q59A12
6(CB27-2) Q62A18
10(CB168-1) K56A20 PROPELLER CONTROL SYSTEM
(SEE NOTE 5)
82
68(CB34-2) E1A20
68(CB46-2) A11F8
68(CB47-2) A111B8
68(CB112-2) Q49A16 FUEL CONTROL SYSTEM
70(CB113-2) P50A20
76(5) P139A20
66(CB19-2) F29A20 CENTER INSTRUMENT SYSTEM
87(2) PV723E18
25(17) PV726A18 AN/APX-72
7(CB32-2) Q27A18 ENGINE FUEL SYSTEM
66 (CB114-2) D3A22 OUTSIDE AIR TEMPERATURE INDICATING SYSTEM
66 (CB3-2) G29G18
66 (CB4-2) Q100A20 HYDRAULIC CONTROL SYSTEM
66 (CB2-2) G50B20 POWER STEERING SYSTEM
72(CB59-2) L20B12
72(CB54-2) L13A18 EXTERIOR LIGHTS SYSTEM
78 (CB135-1) P160V20 ACCELEROMETER (FOR OV-1D 5 AND ON NOT FOR OV-1D(C) AIRCRAFT)
66(CB20-2) M1C1A SEAT CONTROL SYSTEM
45(2) P1AB12 FIRE EXTINGUISHER SYSTEM
50 (SEC BUS) P58J12
50 (SEC BUS) P58K12 PROPELLER AND CONTROL SYSTEM
66(CB7-2) H202A20
66(CB9-2) H201A20 AIR CONDITIONING SYSTEM
66(CB5-2) C1A20 SPEED BRAKE SYSTEM
49(A2) P58G16 PILOTS HEATER
76(2) PV723B20 FLIGHT INSTRUMENTS
12(CB174-1) P1CC20 ENGINE INSTRUMENTS
(SEE NOTE 5)

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   ADR6 — FACILITY OR FUNCTION
   16 — CIRCUIT
   C — WIRE SEGMENT
   22 — WIRE SIZE
   N — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

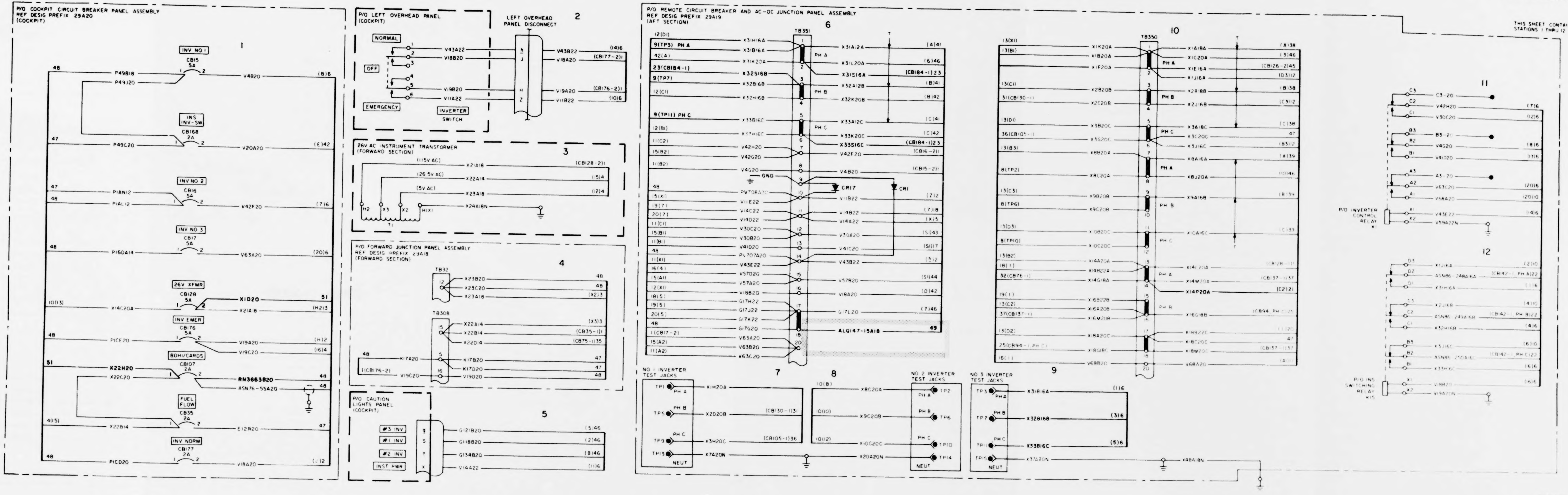
   24 (BB)
   BASE LINE
   LOCATION
   PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ☐ INDICATES EQUIPMENT MARKINGS.
5. FOR ADDITIONAL WIRING INFORMATION REFER TO TM55-1510-213-23

6 APPLIES BEFORE INCORPORATION OF MW055-1510-213-50-1
7 APPLIES AFTER INCORPORATION OF MW055-1510-213-50-1

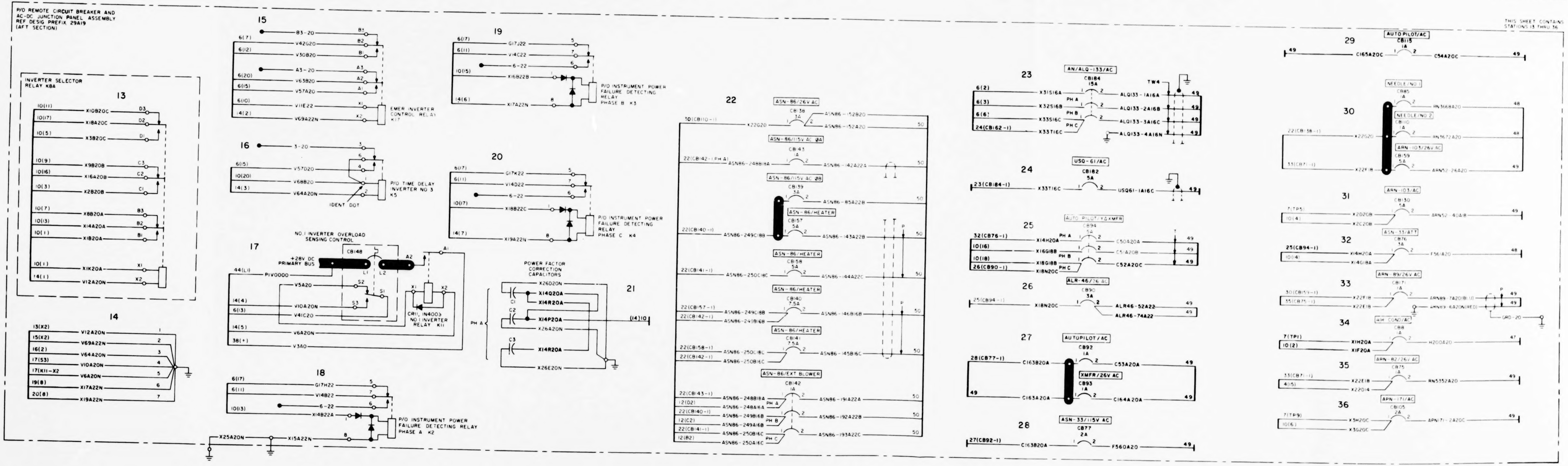
EL2Z7210

FO–19. DC power facility wiring diagram (sheet 5 of 5).


P/O COCKPIT CIRCUIT BREAKER PANEL ASSEMBLY REF DESIG PREFIX 29A20 (COCKPIT)
1
INV NO 1
CB15 5A
INS INV-SW
CB168 2A
INV NO 2
CB16 5A
INV NO 3
CB17 5A
26V XFMR
CB128 5A
INV EMER
CB176 5A
BDHI/CARDS
CB107 2A
FUEL FLOW
CB35 2A
INV NORM
CB177 2A
P/O LEFT OVERHEAD PANEL (COCKPIT)
NORMAL
OFF
EMERGENCY
INVERTER SWITCH
LEFT OVERHEAD PANEL DISCONNECT
2
26V AC INSTRUMENT TRANSFORMER (FORWARD SECTION)
3
(115V AC)
(26.5V AC)
(5V AC)
T1
P/O FORWARD JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A18 (FORWARD SECTION)
4
TB32
TB308
P/O CAUTION LIGHTS PANEL (COCKPIT)
5
#3 INV
#1 INV
#2 INV
INST PWR
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A19 (AFT SECTION)
6
TB351
PH A
PH B
PH C
CR17
CR1
GND
ALQ147-15A18
NO 1 INVERTER TEST JACKS
7
8
NO 2 INVERTER TEST JACKS
NO 3 INVERTER TEST JACKS
9
NEUT
10
TB350
11
P/O INVERTER CONTROL RELAY K1
12
P/O INS SWITCHING RELAY K15
THIS SHEET CONTAINS STATIONS 1 THRU 12

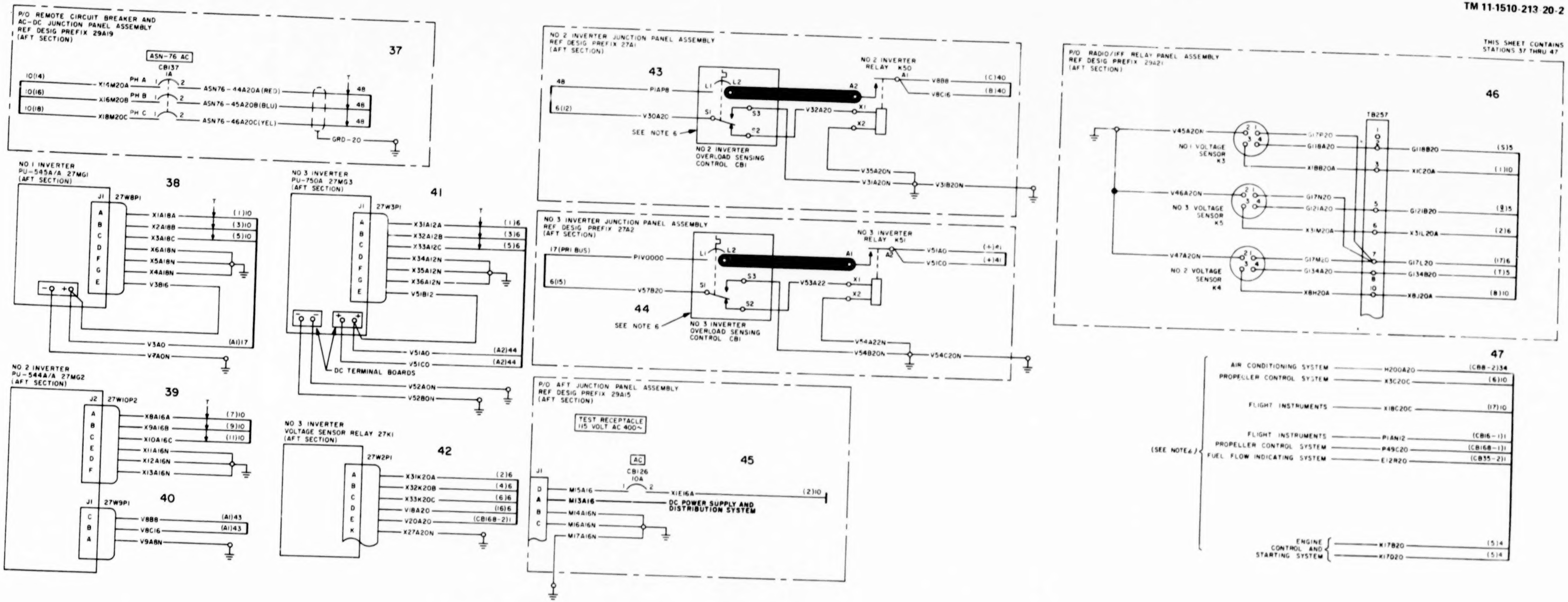
EL2ZT21

FO-20. AC power facility wiring diagram (sheet 1 of 4).


THIS SHEET CONTAINS STATIONS 13 THRU 36
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A19 (AFT SECTION)
INVERTER SELECTOR RELAY K8A
13
10(11) X10B20C D3
10(17) X18A20C D2
10(5) X3B20C D1
10(9) X9B20B C3
10(16) X16A20B C2
10(3) X2B20B C1
10(7) X8B20A B3
10(13) X14A20A B2
10(1) X1B20A B1
10(1) X1K20A X1
14(1) V12A20N X2
14
13(X2) V12A20N 1
15(X2) V69A22N 2
16(2) V64A20N 3
17(S3) V10A20N 4
17(K11-X2) V6A20N 5
19(8) X17A22N 6
20(8) X19A22N 7
15
B3-20 B3
6(7) V42G20 B2
6(12) V30B20 B1
A3-20 A3
6(20) V63B20 A2
6(15) V57A20 A1
6(10) V11E22 X1
14(2) V69A22N X2
EMER INVERTER CONTROL RELAY K17
16
3-20 3
6
6(15) V57D20 4
10(20) V68B20 1
14(3) V64A20N 2
P/O TIME DELAY INVERTER NO 3 K5
IDENT DOT
17
NO.1 INVERTER OVERLOAD SENSING CONTROL
+28V DC PRIMARY BUS
CB148
L1 L2 A2 A1
44(L1) P1V0000
V5A20 S2 S1
14(4) V10A20N S3
6(13) V41C20
14(5) V6A20N
38(+) V3A0
X1 X2
CR11, IN4003
NO.1 INVERTER RELAY K11
18
6(17) G17H22 5
6(11) V14B22 7
6-22 6
10(13) X14B22A 1
X25A20N X15A22N 8
P/O INSTRUMENT POWER FAILURE DETECTING RELAY PHASE A K2
19
6(17) G17J22 5
6(11) V14C22 7
6-22 6
10(15) X16B22B 1
14(6) X17A22N 8
P/O INSTRUMENT POWER FAILURE DETECTING RELAY PHASE B K3
20
6(17) G17K22 5
6(11) V14D22 7
6-22 6
10(17) X18B22C 1
14(7) X19A22N 8
P/O INSTRUMENT POWER FAILURE DETECTING RELAY PHASE C K4
21
POWER FACTOR CORRECTION CAPACITORS
PH A
X26D20N
C1 X14Q20A
X14R20A
C2 X14P20A
X26A20N
C3 X14R20A
X26E20N
(14)10
22
ASN-86/26V AC
CB138 3A
30(CB110-1) X22G20
ASN86-152B20
ASN86-152A20 50
ASN-86/115V AC ØA
CB143 1A
22(CB142-1PH A) ASN86-248B18A
ASN86-142A22A 50
ASN-86/115V AC ØB
CB139 3A
ASN86-85A22B 50
ASN-86/HEATER
CB157 5A
22(CB140-1) ASN86-249C18B
ASN86-143A22B 50
ASN-86/HEATER
CB158 5A
22(CB141-1) ASN86-250C18C
ASN86-144A22C 50
ASN-86/HEATER
CB140 7.5A
22(CB157-1) ASN86-249C18B
22(CB142-1) ASN86-249B16B
ASN86-146B16B 50
ASN-86/HEATER
CB141 7.5A
22(CB158-1) ASN86-250C18C
22(CB142-1) ASN86-250B16C
ASN86-145B16C 50
P
ASN-86/EXT BLOWER
CB142 1A
22(CB143-1) ASN86-248B18A
12(D2) ASN86-248A16A PH A
ASN86-191A22A 50
22(CB140-1) ASN86-249B16B
12(C2) ASN86-249A16B PH B
ASN86-192A22B 50
22(CB141-1) ASN86-250B16C
12(B2) ASN86-250A16C PH C
ASN86-193A22C 50
23
AN/ALQ-133/AC
CB184 15A
6(2) X31S16A
6(3) X32S16B PH A
6(6) X33S16C PH B
24(CB162-1) X33T16C PH C
ALQ133-1A16A 49
ALQ133-2A16B 49
ALQ133-3A16C 49
ALQ133-4A16N 49
TW4
24
USQ-61/AC
CB182 5A
23(CB184-1) X33T16C
USQ61-1A16C 49
25
AUTO PILOT/YΔXMFR
CB94 5A
32(CB76-1) X14H20A PH A
10(16) X16G18B
10(18) X18G18B PH B
26(CB90-1) X18N20C PH C
C50A20A 49
C51A20B 49
C52A20C 49
26
ALR-46/26 AC
CB90 3A
25(CB94-1) X18N20C
ALR46-52A22 49
ALR46-74A22 49
27
AUTOPILOT/AC
CB92 1A
28(CB77-1) C163B20A
C53A20A 49
XMFR/26V AC
CB93 1A
49 C163A20A
C164A20A 49
28
ASN-33/115V AC
CB77 2A
27(CB92-1) C163B20A
F560A20 49
29
AUTO PILOT/AC
CB115 1A
49 C165A20C
C54A20C 49
30
NEEDLE/NO 1
CB85 1A
RN3668A20 48
NEEDLE/NO 2
CB110 1A
22(CB138-1) X22G20
RN3672A20 48
ARN-103/26V AC
CB159 5A
33(CB71-1) X22F18
ARN52-26A20 49
31
ARN-103/AC
CB130 5A
7(TP5) X2D20B
10(4) X2C20B
ARN52-40A18 49
32
ASN-33/ATT
CB76 3A
25(CB94-1) X14H20A
10(14) X14G18A
F561A20 48
33
ARN-89/26V AC
CB171 1A
30(CB159-1) X22F18
35(CB75-1) X22E18
ARN89-7A20(BLU) 49
ARN89-6A20N(RED) 49
P
GRD-20
34
AIR COND/AC
CB8 1A
7(TP1) X1H20A
10(2) X1F20A
H200A20 47
35
ARN-82/26V AC
CB75 1A
33(CB71-1) X22E18
4(15) X22D14
RN5352A20 49
36
APN-171/AC
CB105 2A
7(TP9) X3H20C
10(6) X3G20C
APN171-2A20C 49

EL22T212

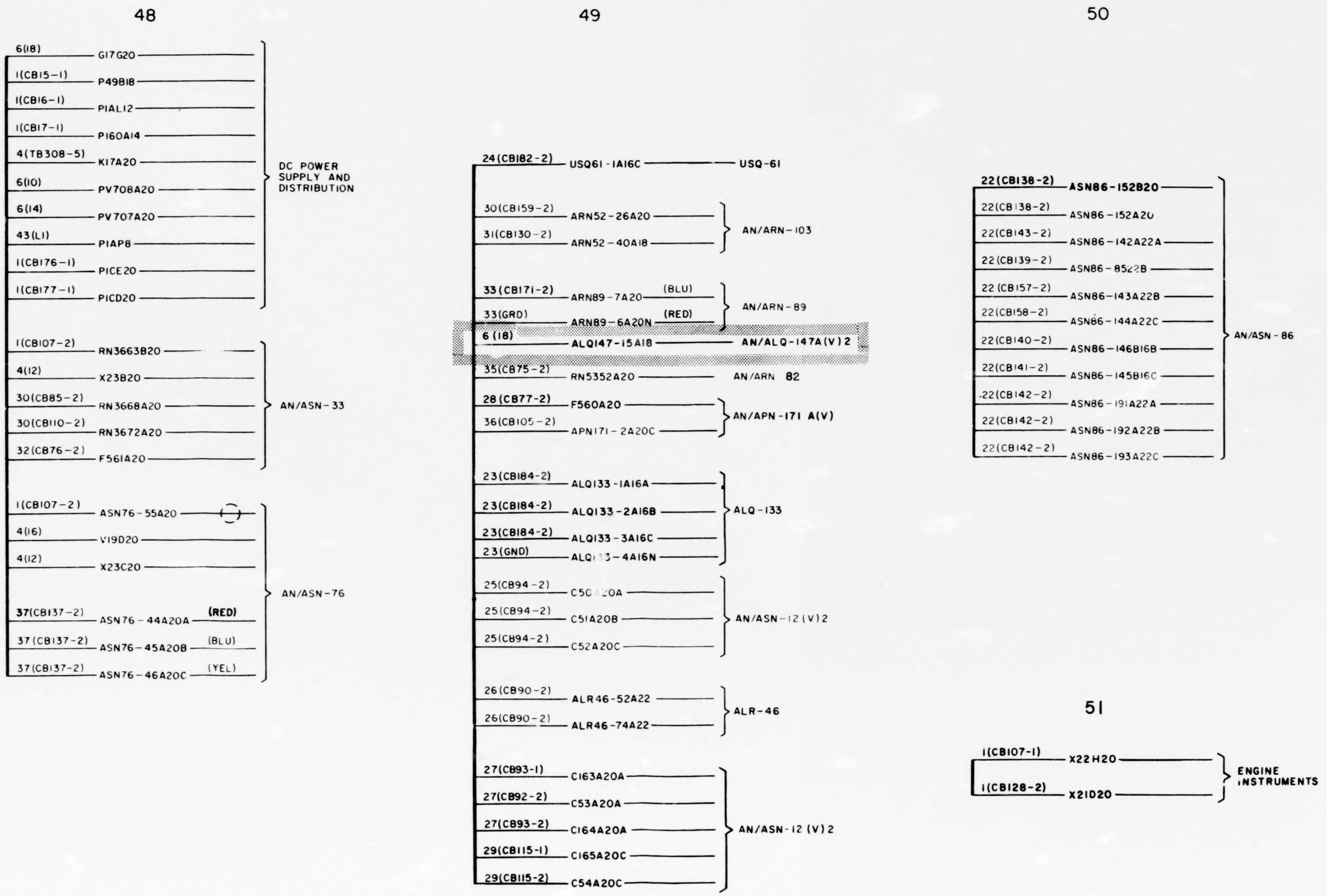
FO-20. AC power facility wiring diagram (sheet 2 of 4).


THIS SHEET CONTAINS STATIONS 37 THRU 47
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A19 (AFT SECTION)
37
ASN-76 AC
CB137 1A
PH A
PH B
PH C
X14M20A
X16M20B
X18M20C
ASN76-44A20A(RED)
ASN76-45A20B(BLU)
ASN76-46A20C(YEL)
GRD-20
NO 1 INVERTER PU-545A/A 27MG1 (AFT SECTION)
38
J1 27W8P1
X1A18A
X2A18B
X3A18C
X6A18N
X5A18N
X4A18N
V3B16
V3A0
V7A0N
NO 2 INVERTER PU-544A/A 27MG2 (AFT SECTION)
39
J2 27W10P2
X8A16A
X9A16B
X10A16C
X11A16N
X12A16N
X13A16N
40
J1 27W9P1
V8B8
V8C16
V9A8N
NO 3 INVERTER PU-750A 27MG3 (AFT SECTION)
41
J1 27W3P1
X31A12A
X32A12B
X33A12C
X34A12N
X35A12N
X36A12N
V51B12
V51A0
V51C0
V52A0N
V52B0N
DC TERMINAL BOARDS
NO 3 INVERTER VOLTAGE SENSOR RELAY 27K1 (AFT SECTION)
42
27W2P1
X31K20A
X32K20B
X33K20C
V18A20
V20A20
X27A20N
NO 2 INVERTER JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 27A1 (AFT SECTION)
43
P1AP8
V30A20
SEE NOTE 6
NO 2 INVERTER OVERLOAD SENSING CONTROL CB1
NO 2 INVERTER RELAY K50
V32A20
V35A20N
V31A20N
V31B20N
NO 3 INVERTER JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 27A2 (AFT SECTION)
17(PRI BUS)
P1V0000
V57B20
44
SEE NOTE 6
NO 3 INVERTER OVERLOAD SENSING CONTROL CB1
NO 3 INVERTER RELAY K51
V53A22
V54A22N
V54B20N
V54C20N
P/O AFT JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A15 (AFT SECTION)
TEST RECEPTACLE 115 VOLT AC 400~
AC
CB126 10A
45
M15A16
M13A16
M14A16N
M16A16N
M17A16N
X1E16A
DC POWER SUPPLY AND DISTRIBUTION SYSTEM
P/O RADIO/IFF RELAY PANEL ASSEMBLY REF DESIG PREFIX 29A21 (AFT SECTION)
46
TB257
V45A20N
NO 1 VOLTAGE SENSOR K3
V46A20N
NO 3 VOLTAGE SENSOR K5
V47A20N
NO 2 VOLTAGE SENSOR K4
G17P20
G118A20
X18B20A
G17N20
G121A20
X31M20A
G17M20
G134A20
X8H20A
G118B20
X1C20A
G121B20
X31L20A
G17L20
G134B20
X8J20A
47
AIR CONDITIONING SYSTEM
PROPELLER CONTROL SYSTEM
FLIGHT INSTRUMENTS
FLIGHT INSTRUMENTS
PROPELLER CONTROL SYSTEM
FUEL FLOW INDICATING SYSTEM
(SEE NOTE 6)
ENGINE CONTROL AND STARTING SYSTEM
H200A20
X3C20C
X18C20C
P1AN12
P49C20
E12R20
X17B20
X17D20

EL22T213

FO-20. AC power facility wiring diagram (sheet 3 of 4).

THIS SHEET CONTAINS
STATION 48 THRU 51


48
6(18) G17G20
1(CB15-1) P49B18
1(CB16-1) P1AL12
1(CB17-1) P160A14
4(TB308-5) K17A20
6(10) PV708A20
6(14) PV707A20
43(L1) P1AP8
1(CB176-1) P1CE20
1(CB177-1) P1CD20
DC POWER SUPPLY AND DISTRIBUTION
1(CB107-2) RN3663B20
4(12) X23B20
30(CB85-2) RN3668A20
30(CB110-2) RN3672A20
32(CB76-2) F561A20
AN/ASN-33
1(CB107-2) ASN76-55A20
4(16) V19D20
4(12) X23C20
37(CB137-2) ASN76-44A20A (RED)
37(CB137-2) ASN76-45A20B (BLU)
37(CB137-2) ASN76-46A20C (YEL)
AN/ASN-76
49
24(CB182-2) USQ61-1A16C
USQ-61
30(CB159-2) ARN52-26A20
31(CB130-2) ARN52-40A18
AN/ARN-103
33(CB171-2) ARN89-7A20 (BLU)
33(GRD) ARN89-6A20N (RED)
AN/ARN-89
6(18) ALQ147-15A18
AN/ALQ-147A(V)2
35(CB75-2) RN5352A20
AN/ARN 82
28(CB77-2) F560A20
36(CB105-2) APN171-2A20C
AN/APN-171 A(V)
23(CB184-2) ALQ133-1A16A
23(CB184-2) ALQ133-2A16B
23(CB184-2) ALQ133-3A16C
23(GND) ALQ133-4A16N
ALQ-133
25(CB94-2) C50 20A
25(CB94-2) C51A20B
25(CB94-2) C52A20C
AN/ASN-12(V)2
26(CB90-2) ALR46-52A22
26(CB90-2) ALR46-74A22
ALR-46
27(CB93-1) C163A20A
27(CB92-2) C53A20A
27(CB93-2) C164A20A
29(CB115-1) C165A20C
29(CB115-2) C54A20C
AN/ASN-12(V)2
50
22(CB138-2) ASN86-152B20
22(CB138-2) ASN86-152A20
22(CB143-2) ASN86-142A22A
22(CB139-2) ASN86-8522B
22(CB157-2) ASN86-143A22B
22(CB158-2) ASN86-144A22C
22(CB140-2) ASN86-146B16B
22(CB141-2) ASN86-145B16C
22(CB142-2) ASN86-191A22A
22(CB142-2) ASN86-192A22B
22(CB142-2) ASN86-193A22C
AN/ASN-86
51
1(CB107-1) X22H20
1(CB128-2) X21D20
ENGINE INSTRUMENTS

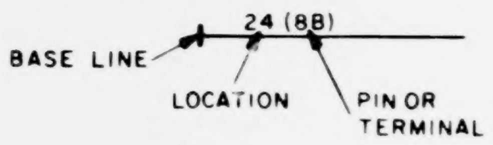
NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

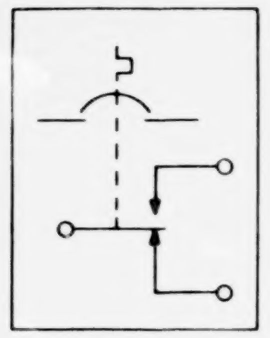
   KY-28 16 C 22 N

   FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:


24 (8B)
BASE LINE
LOCATION
PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5.



INDICATES CURRENT OVERLOAD SENSOR (CLOSES ON RISING CURRENT FLOW)

6. FOR ADDITIONAL WIRING INFORMATION REFER TO TM55-1510-213-23.

EL2ZT214

FO-20. *AC power facility wiring diagram (sheet 4 of 4).*

THIS SHEET CONTAINS
STATION 1 THRU 10

P/O COCKPIT CIRCUIT BREAKER PANEL ASSEMBLY REF DESIG PREFIX 29A20
PROP SYNC/AC
CB40 1A
AC POWER FACILITY
X3C20C
K48A20
PROP SYNC/DC
CB41 1A
DC POWER FACILITY MONITOR BUS
P49C20
K56A20
1
PROP SYNCROPHASER TEST JACK (COCKPIT)
K42A20N
BLK
RED
K53A20
2
PEDESTAL DISCONNECT (COCKPIT)
4 (OFF)
4 (ON)
K36A20
K93B20
3
P/O PEDESTAL (COCKPIT)
4
OFF
ON
AUTO FEATHER AND SYNCHROPHASER ARMING SWITCH
SPEED BIAS SERVO ASSEMBLY (ENGINE NO.2) (FWD SECTION)
SLAVE PULSE RTN
SLAVE PULSE
REF WINDING
FEEDBACK POT
CONTROL WINDING
REF WINDING
GRD-18
PROPELLER NO.2 PIGTAIL NO.1 (FWD SECTION)
NO.2 ENGINE DISCONNECT (FWD SECTION)
R WING DISC NO.3
5
SPEED BIAS SERVO ASSEMBLY (ENGINE NO.1) (FWD SECTION)
MASTER PULSE RTN
MASTER PULSE
PROPELLER NO.1 PIGTAIL NO.1 (FWD SECTION)
NO.1 ENGINE DISCONNECT (FWD SECTION)
L WING DISC NO.3
6
AIRCRAFT PROPELLER SYNCHROPHASER SN-324/AJA-5 REF DESIG PREFIX 28A1 (FWD SECTION)
115 VAC 400HZ
28 VDC
115 VOLTAGE
REF VOLTAGE RTN
MASTER PULSE
MASTER PULSE RTN
SLAVE PULSE
SLAVE PULSE RTN
GROUND
SERVO MOTOR FEEDBACK
-25 V DC
+25 V DC
PHASE DIFFERENCE
SERVO MOTOR CONTROL
SERVO MOTOR CONTROL RTN
7
P/O PROPELLER JUNCTION PANEL ASSEMBLY (MID SECTION)
TB42
8
AUTO FEATHER ARMED LIGHT OF PILOT'S INSTRUMENT PANEL
TB43
9
TB45
10

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

KY28 16 C 22 N

FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

24 (8B)

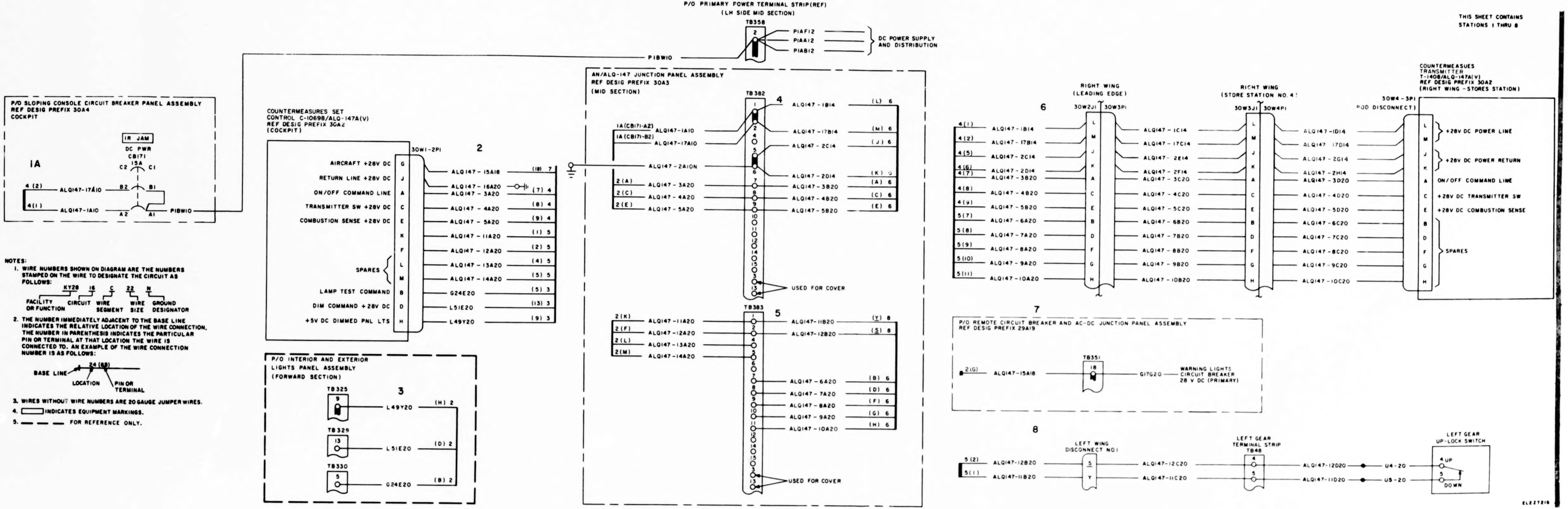
BASE LINE — LOCATION — PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4. ▭ INDICATES EQUIPMENT MARKINGS.

EL2ZT215

FO-21. *Propeller synchrophaser facility wiring diagram.*


THIS SHEET CONTAINS STATIONS 1 THRU 8
P/O PRIMARY POWER TERMINAL STRIP(REF)
(LH SIDE MID SECTION)
TB358
2
P1AF12
P1AA12
P1AB12
DC POWER SUPPLY AND DISTRIBUTION
P1BW10
P/O SLOPING CONSOLE CIRCUIT BREAKER PANEL ASSEMBLY
REF DESIG PREFIX 30A4
COCKPIT
1A
IR JAM
DC PWR
CB171
15A
C2
C1
B2
B1
A2
A1
4 (2)
4(1)
ALQ147-17A10
ALQ147-1A10
P1BW10
COUNTERMEASURES SET
CONTROL C-10698/ALQ-147A(V)
REF DESIG PREFIX 30A2
(COCKPIT)
30W1-2P1
2
AIRCRAFT +28V DC
RETURN LINE +28V DC
ON/OFF COMMAND LINE
TRANSMITTER SW +28V DC
COMBUSTION SENSE +28V DC
SPARES
LAMP TEST COMMAND
DIM COMMAND +28V DC
+5V DC DIMMED PNL LTS
G
J
A
C
E
K
F
L
M
B
D
H
ALQ147 - 15A18
ALQ147 - 16A20
ALQ147 - 3A20
ALQ147 - 4A20
ALQ147 - 5A20
ALQ147 - 11A20
ALQ147 - 12A20
ALQ147 - 13A20
ALQ147 - 14A20
G24E20
L51E20
L49Y20
(18) 7
(7) 4
(8) 4
(9) 4
(1) 5
(2) 5
(4) 5
(5) 5
(5) 3
(13) 3
(9) 3
P/O INTERIOR AND EXTERIOR
LIGHTS PANEL ASSEMBLY
(FORWARD SECTION)
3
TB325
9
L49Y20
(H) 2
TB329
13
L51E20
(D) 2
TB330
5
G24E20
(B) 2
AN/ALQ-147 JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 30A3
(MID SECTION)
TB382
4
1A(CB171-A2)
1A(CB171-B2)
ALQ147-1A10
ALQ147-17A10
ALQ147 - 2A10N
2 (A)
2 (C)
2 (E)
ALQ147 - 3A20
ALQ147 - 4A20
ALQ147 - 5A20
1
2
4
5
6
7
8
9
10
11
12
14
15
3
13
ALQ147 - 1B14
ALQ147 - 17B14
ALQ147 - 2C14
ALQ147 - 2D14
ALQ147 - 3B20
ALQ147 - 4B20
ALQ147 - 5B20
(L) 6
(M) 6
(J) 6
(K) 6
(A) 6
(C) 6
(E) 6
USED FOR COVER
TB383
5
2 (K)
2 (F)
2 (L)
2 (M)
ALQ147 - 11A20
ALQ147 - 12A20
ALQ147 - 13A20
ALQ147 - 14A20
ALQ147 - 11B20
ALQ147 - 12B20
ALQ147 - 6A20
ALQ147 - 7A20
ALQ147 - 8A20
ALQ147 - 9A20
ALQ147 - 10A20
(Y) 8
(S) 8
(B) 6
(D) 6
(F) 6
(G) 6
(H) 6
USED FOR COVER
6
RIGHT WING
(LEADING EDGE)
30W2J1
30W3P1
RIGHT WING
(STORE STATION NO. 4)
30W3J1
30W4P1
COUNTERMEASUES
TRANSMITTER
T-1408/ALQ-147A(V)
REF DESIG PREFIX 30A2
(RIGHT WING - STORES STATION)
30W4 - 3P1
POD DISCONNECT)
4 (1)
4 (2)
4 (5)
4 (6)
4 (7)
4 (8)
4 (9)
5 (7)
5 (8)
5 (9)
5 (10)
5 (11)
ALQ147 - 1B14
ALQ147 - 17B14
ALQ147 - 2C14
ALQ147 - 2D14
ALQ147 - 3B20
ALQ147 - 4B20
ALQ147 - 5B20
ALQ147 - 6A20
ALQ147 - 7A20
ALQ147 - 8A20
ALQ147 - 9A20
ALQ147 - 10A20
L
M
J
K
A
C
E
B
D
F
G
H
ALQ147 - 1C14
ALQ147 - 17C14
ALQ147 - 2E14
ALQ147 - 2F14
ALQ147 - 3C20
ALQ147 - 4C20
ALQ147 - 5C20
ALQ147 - 6B20
ALQ147 - 7B20
ALQ147 - 8B20
ALQ147 - 9B20
ALQ147 - 10B20
ALQ147 - 1D14
ALQ147 17D14
ALQ147 - 2G14
ALQ147 - 2H14
ALQ147 - 3D20
ALQ147 - 4D20
ALQ147 - 5D20
ALQ147 - 6C20
ALQ147 - 7C20
ALQ147 - 8C20
ALQ147 - 9C20
ALQ147 - 10C20
+28V DC POWER LINE
+28V DC POWER RETURN
ON/OFF COMMAND LINE
+28V DC TRANSMITTER SW
+28V DC COMBUSTION SENSE
SPARES
7
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
2(G)
ALQ147-15A18
TB351
18
G17G20
WARNING LIGHTS
CIRCUIT BREAKER
28 V DC (PRIMARY)
8
5 (2)
5(1)
ALQ147-12B20
ALQ147-11B20
LEFT WING
DISCONNECT NO1
S
Y
ALQ147-12C20
ALQ147-11C20
LEFT GEAR
TERMINAL STRIP
TB48
4
5
ALQ147-12D20
ALQ147-11D20
U4-20
U5-20
LEFT GEAR
UP-LOCK SWITCH
4 UP
5
DOWN
EL2ZT216

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   KY28 16 C 22 N

   FACILITY OR FUNCTION / CIRCUIT / WIRE SEGMENT / WIRE SIZE / GROUND DESIGNATOR

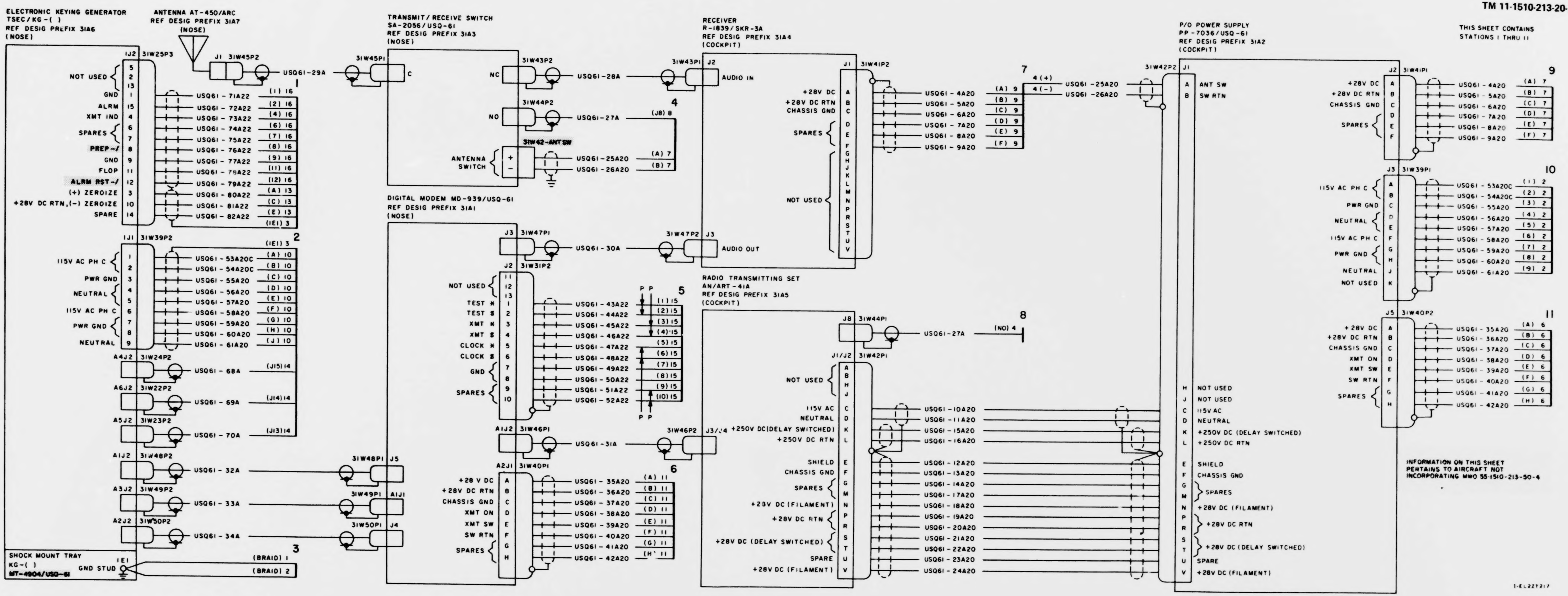
2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION, THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

   24 (6B)

   BASE LINE / LOCATION / PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. — — — FOR REFERENCE ONLY.

FO-22. IR jammer facility wiring diagram.

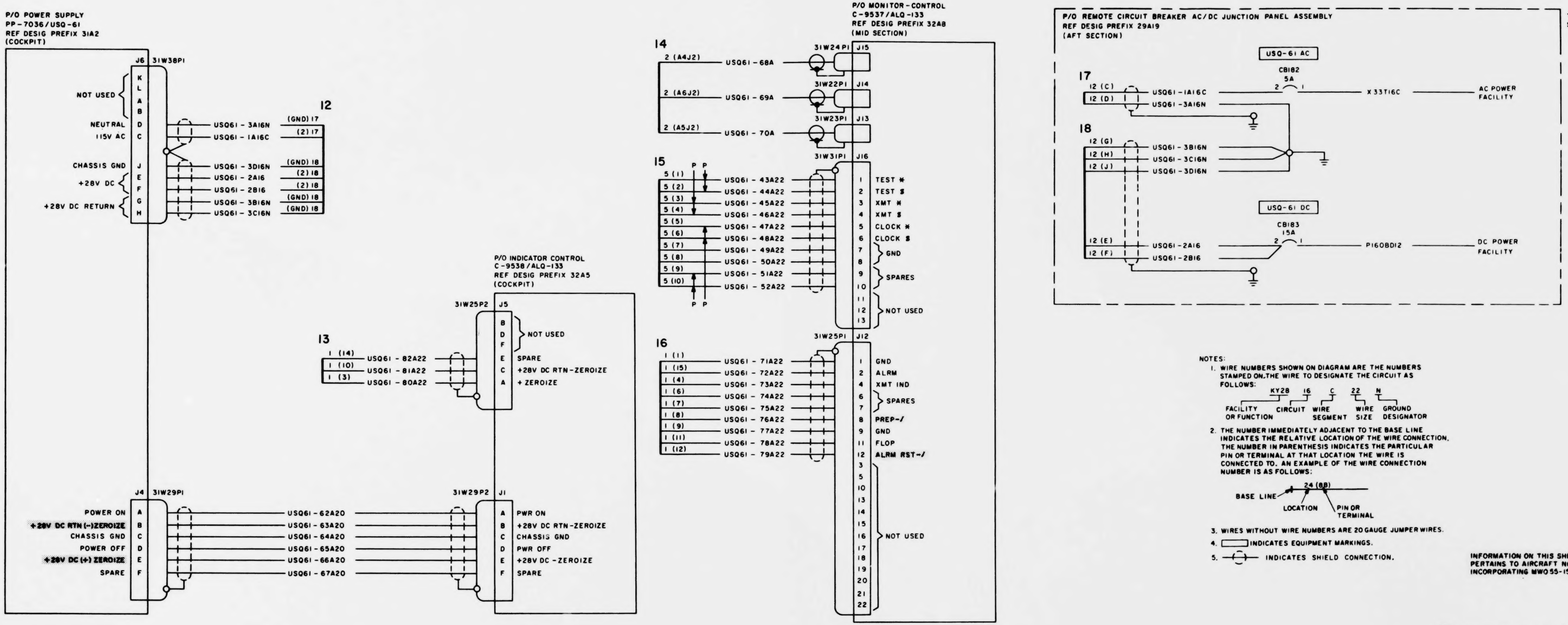

ELECTRONIC KEYING GENERATOR TSEC/KG-( ) REF DESIG PREFIX 31A6 (NOSE)
ANTENNA AT-450/ARC REF DESIG PREFIX 31A7 (NOSE)
TRANSMIT/RECEIVE SWITCH SA-2056/USQ-61 REF DESIG PREFIX 31A3 (NOSE)
RECEIVER R-1839/SKR-3A REF DESIG PREFIX 31A4 (COCKPIT)
P/O POWER SUPPLY PP-7036/USQ-61 REF DESIG PREFIX 31A2 (COCKPIT)
DIGITAL MODEM MD-939/USQ-61 REF DESIG PREFIX 31A1 (NOSE)
RADIO TRANSMITTING SET AN/ART-41A REF DESIG PREFIX 31A5 (COCKPIT)
SHOCK MOUNT TRAY KG-( ) MT-4904/USQ-61
GND STUD
1J2 31W25P3
NOT USED
GND
ALRM
XMT IND
SPARES
PREP-/
FLOP
ALRM RST-/
(+) ZEROIZE
+28V DC RTN,(-) ZEROIZE
SPARE
1J1 31W39P2
115V AC PH C
PWR GND
NEUTRAL
A4J2 31W24P2
A6J2 31W22P2
A5J2 31W23P2
A1J2 31W48P2
A3J2 31W49P2
A2J2 31W50P2
J1 31W45P2
USQ61-29A
31W45P1
31W43P2
31W44P2
31W42-ANT SW
ANTENNA SWITCH
USQ61-28A
USQ61-27A
USQ61-25A20
USQ61-26A20
31W43P1 J2 AUDIO IN
31W47P2 J3 AUDIO OUT
J3 31W47P1
USQ61-30A
J2 31W31P2
TEST
XMT
CLOCK
A1J2 31W46P1
USQ61-31A
31W46P2 J3/J4
A2J1 31W40P1
+28 V DC
+28V DC RTN
CHASSIS GND
XMT ON
XMT SW
SW RTN
31W48P1 J5
31W49P1 A1J1
31W50P1 J4
J1 31W41P2
J8 31W44P1
J1/J2 31W42P1
115V AC
+250V DC(DELAY SWITCHED)
+250V DC RTN
SHIELD
+28V DC (FILAMENT)
+28V DC (DELAY SWITCHED)
31W42P2 J1
ANT SW
SW RTN
J2 31W41P1
J3 31W39P1
J5 31W40P2
1
2
3
4
5
6
7
8
9
10
11

THIS SHEET CONTAINS STATIONS 1 THRU 11

INFORMATION ON THIS SHEET PERTAINS TO AIRCRAFT NOT INCORPORATING MWO 55-1510-213-50-4

1-EL22T217

Figure FO–23. Data link facility wiring diagram (sheet 1 of 2)


P/O POWER SUPPLY
PP-7036/USQ-61
REF DESIG PREFIX 31A2
(COCKPIT)
J6
31W38P1
NOT USED
K
L
A
B
NEUTRAL
D
115V AC
C
CHASSIS GND
J
+28V DC
E
F
+28V DC RETURN
G
H
USQ61 - 3A16N
USQ61 - 1A16C
USQ61 - 3D16N
USQ61 - 2A16
USQ61 - 2B16
USQ61 - 3B16N
USQ61 - 3C16N
12
(GND) 17
(2) 17
(GND) 18
(2) 18
(2) 18
(GND) 18
(GND) 18
P/O INDICATOR CONTROL
C-9538/ALQ-133
REF DESIG PREFIX 32A5
(COCKPIT)
31W25P2
J5
B
D
F
NOT USED
13
1 (14)
1 (10)
1 (3)
USQ61 - 82A22
USQ61 - 81A22
USQ61 - 80A22
E
C
A
SPARE
+28V DC RTN-ZEROIZE
+ ZEROIZE
J4
31W29P1
POWER ON
+28V DC RTN (-)ZEROIZE
CHASSIS GND
POWER OFF
+28V DC (+) ZEROIZE
SPARE
A
B
C
D
E
F
USQ61 - 62A20
USQ61 - 63A20
USQ61 - 64A20
USQ61 - 65A20
USQ61 - 66A20
USQ61 - 67A20
31W29P2
J1
PWR ON
+28V DC RTN-ZEROIZE
CHASSIS GND
PWR OFF
+28V DC -ZEROIZE
SPARE
P/O MONITOR-CONTROL
C-9537/ALQ-133
REF DESIG PREFIX 32A8
(MID SECTION)
14
2 (A4J2)
USQ61 - 68A
31W24P1
J15
2 (A6J2)
USQ61 - 69A
31W22P1
J14
2 (A5J2)
USQ61 - 70A
31W23P1
J13
15
P P
5 (1)
5 (2)
5 (3)
5 (4)
5 (5)
5 (6)
5 (7)
5 (8)
5 (9)
5 (10)
P P
USQ61 - 43A22
USQ61 - 44A22
USQ61 - 45A22
USQ61 - 46A22
USQ61 - 47A22
USQ61 - 48A22
USQ61 - 49A22
USQ61 - 50A22
USQ61 - 51A22
USQ61 - 52A22
31W31P1
J16
1 TEST *
2 TEST $
3 XMT *
4 XMT $
5 CLOCK *
6 CLOCK $
7
8
GND
9
10
SPARES
11
12
13
NOT USED
16
1 (1)
1 (15)
1 (4)
1 (6)
1 (7)
1 (8)
1 (9)
1 (11)
1 (12)
USQ61 - 71A22
USQ61 - 72A22
USQ61 - 73A22
USQ61 - 74A22
USQ61 - 75A22
USQ61 - 76A22
USQ61 - 77A22
USQ61 - 78A22
USQ61 - 79A22
31W25P1
J12
1 GND
2 ALRM
4 XMT IND
6
7
SPARES
8 PREP-/
9 GND
11 FLOP
12 ALRM RST-/
3
5
10
13
14
15
16
17
18
19
20
21
22
NOT USED
P/O REMOTE CIRCUIT BREAKER AC/DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
USQ-61 AC
17
12 (C)
12 (D)
USQ61 -1A16C
USQ61 -3A16N
CB182
5A
2
1
X33T16C
AC POWER FACILITY
18
12 (G)
12 (H)
12 (J)
USQ61 - 3B16N
USQ61 - 3C16N
USQ61 - 3D16N
USQ-61 DC
CB183
15A
2
1
12 (E)
12 (F)
USQ61 -2A16
USQ61 -2B16
P160BD12
DC POWER FACILITY

THIS SHEET CONTAINS STATIONS 12 THRU 18

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   KY28 16 C 22 N
   FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

   24 (8B)
   BASE LINE — LOCATION — PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4. ▭ INDICATES EQUIPMENT MARKINGS.

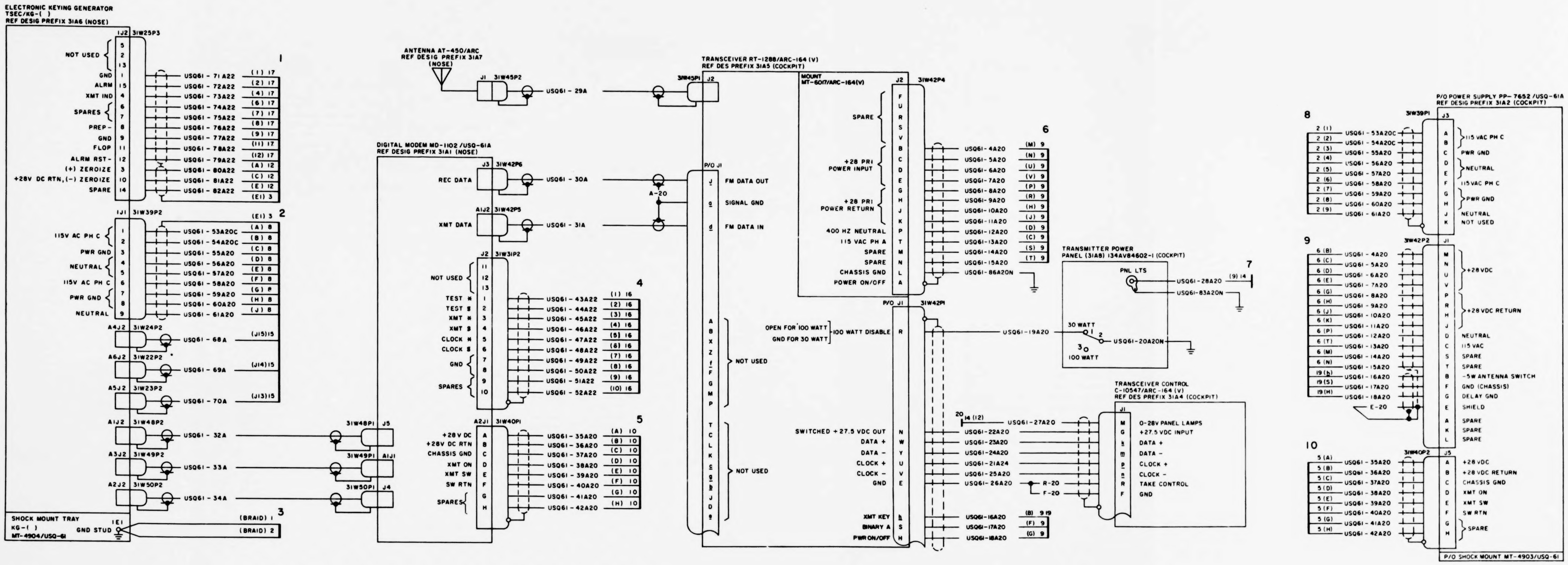
5. —(¦)— INDICATES SHIELD CONNECTION.

INFORMATION ON THIS SHEET PERTAINS TO AIRCRAFT NOT INCORPORATING MWO 55-1510-213-50-4

1-EL22T218

Figure FO-23. Data link facility wiring diagram (sheet 2 of 2)

THIS SHEET CONTAINS STATIONS 1 THRU 10

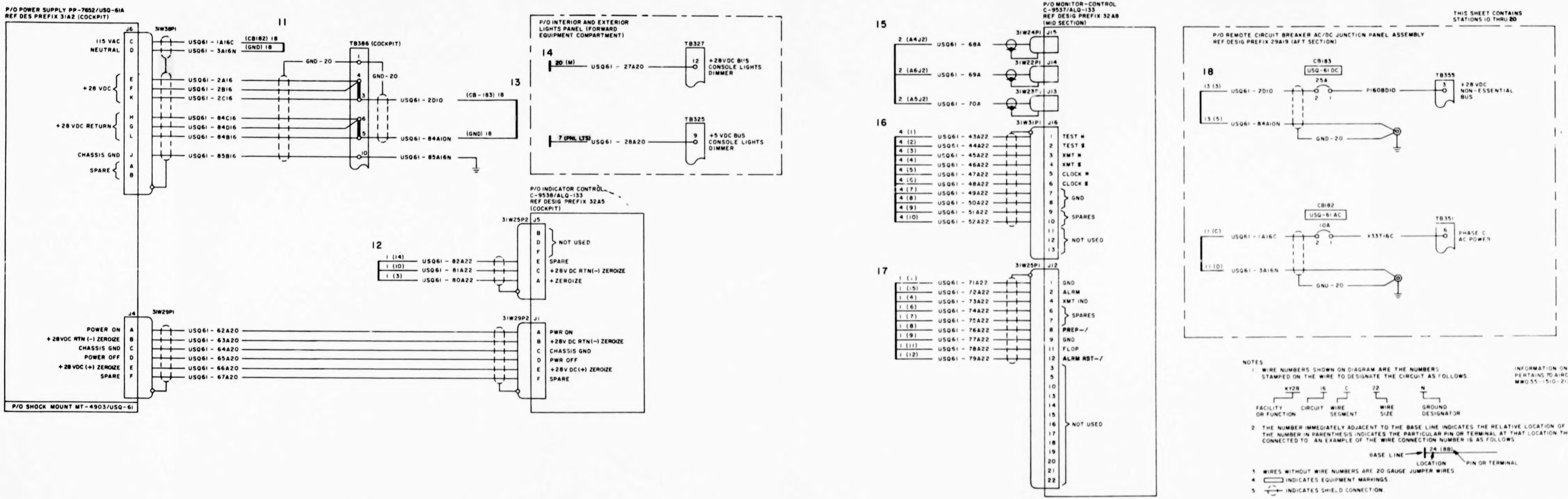

ELECTRONIC KEYING GENERATOR TSEC/KG-( ) REF DESIG PREFIX 31A6 (NOSE)
1J2 31W25P3
NOT USED
GND
ALRM
XMT IND
SPARES
PREP-
GND
FLOP
ALRM RST-
(+) ZEROIZE
+28V DC RTN,(-) ZEROIZE
SPARE
USQ61 - 71A22
USQ61 - 72A22
USQ61 - 73A22
USQ61 - 74A22
USQ61 - 75A22
USQ61 - 76A22
USQ61 - 77A22
USQ61 - 78A22
USQ61 - 79A22
USQ61 - 80A22
USQ61 - 81A22
USQ61 - 82A22
1
1J1 31W39P2
2
115V AC PH C
PWR GND
NEUTRAL
115V AC PH C
PWR GND
NEUTRAL
USQ61 - 53A20C
USQ61 - 54A20C
USQ61 - 55A20
USQ61 - 56A20
USQ61 - 57A20
USQ61 - 58A20
USQ61 - 59A20
USQ61 - 60A20
USQ61 - 61A20
A4J2 31W24P2
USQ61 - 68A
A6J2 31W22P2
USQ61 - 69A
A5J2 31W23P2
USQ61 - 70A
A1J2 31W48P2
USQ61 - 32A
A3J2 31W49P2
USQ61 - 33A
A2J2 31W50P2
USQ61 - 34A
SHOCK MOUNT TRAY KG-( ) MT-4904/USQ-61
1E1
GND STUD
(BRAID) 1
(BRAID) 2
3
31W48P1 J5
31W49P1 A1J1
31W50P1 J4
ANTENNA AT-450/ARC REF DESIG PREFIX 31A7 (NOSE)
J1 31W45P2
USQ61 - 29A
DIGITAL MODEM MD-1102/USQ-61A REF DESIG PREFIX 31A1 (NOSE)
J3 31W42P6
REC DATA
USQ61 - 30A
A1J2 31W42P5
XMT DATA
USQ61 - 31A
A-20
J2 31W31P2
NOT USED
TEST
XMT
CLOCK
GND
SPARES
USQ61 - 43A22
USQ61 - 44A22
USQ61 - 45A22
USQ61 - 46A22
USQ61 - 47A22
USQ61 - 48A22
USQ61 - 49A22
USQ61 - 50A22
USQ61 - 51A22
USQ61 - 52A22
4
A2J1 31W40P1
+28 V DC
+28V DC RTN
CHASSIS GND
XMT ON
XMT SW
SW RTN
SPARES
USQ61 - 35A20
USQ61 - 36A20
USQ61 - 37A20
USQ61 - 38A20
USQ61 - 39A20
USQ61 - 40A20
USQ61 - 41A20
USQ61 - 42A20
5
TRANSCEIVER RT-1288/ARC-164 (V) REF DES PREFIX 31A5 (COCKPIT)
31W45P1 J2
P/O J1
FM DATA OUT
SIGNAL GND
FM DATA IN
NOT USED
NOT USED
MOUNT MT-6017/ARC-164(V)
J2 31W42P4
SPARE
+28 PRI POWER INPUT
+28 PRI POWER RETURN
400 HZ NEUTRAL
115 VAC PH A
SPARE
SPARE
CHASSIS GND
POWER ON/OFF
USQ61 - 4A20
USQ61 - 5A20
USQ61 - 6A20
USQ61 - 7A20
USQ61 - 8A20
USQ61 - 9A20
USQ61 - 10A20
USQ61 - 11A20
USQ61 - 12A20
USQ61 - 13A20
USQ61 - 14A20
USQ61 - 15A20
USQ61 - 86A20N
6
P/O J1 31W42P1
OPEN FOR 100 WATT
GND FOR 30 WATT
100 WATT DISABLE
USQ61 - 19A20
SWITCHED +27.5 VDC OUT
DATA +
DATA -
CLOCK +
CLOCK -
GND
USQ61 - 27A20
USQ61 - 22A20
USQ61 - 23A20
USQ61 - 24A20
USQ61 - 21A24
USQ61 - 25A20
USQ61 - 26A20
R-20
F-20
XMT KEY
BINARY A
PWR ON/OFF
USQ61 - 16A20
USQ61 - 17A20
USQ61 - 18A20
TRANSMITTER POWER PANEL (31A8) 134AV84602-1 (COCKPIT)
PNL LTS
USQ61 - 28A20
USQ61 - 83A20N
7
30 WATT
100 WATT
USQ61 - 20A20N
TRANSCEIVER CONTROL C-10547/ARC-164 (V) REF DES PREFIX 31A4 (COCKPIT)
J1
0-28V PANEL LAMPS
+27.5 VDC INPUT
DATA +
DATA -
CLOCK +
CLOCK -
TAKE CONTROL
GND
8
P/O POWER SUPPLY PP-7652/USQ-61A REF DESIG PREFIX 31A2 (COCKPIT)
31W39P1 J3
115 VAC PH C
PWR GND
NEUTRAL
115 VAC PH C
PWR GND
NEUTRAL
NOT USED
9
31W42P2 J1
+28 VDC
+28 VDC RETURN
NEUTRAL
115 VAC
SPARE
SPARE
-5W ANTENNA SWITCH
GND (CHASSIS)
DELAY GND
SHIELD
SPARE
SPARE
SPARE
E-20
10
31W40P2 J5
+28 VDC
+28 VDC RETURN
CHASSIS GND
XMT ON
XMT SW
SW RTN
SPARE
P/O SHOCK MOUNT MT-4903/USQ-61

INFORMATION ON THIS SHEET PERTAINS TO AIRCRAFT INCORPORATING MWO 55-1510-213-50-4

1-EL22T375

Figure FO–23.1. Data link facility wiring diagram (sheet 1 of 2)

THIS SHEET CONTAINS
STATIONS 10 THRU 20


P/O POWER SUPPLY PP-7652/USQ-61A
REF DES PREFIX 31A2 (COCKPIT)
J6
31W38P1
115 VAC C
NEUTRAL D
+28 VDC E F K
+28 VDC RETURN H G L
CHASSIS GND J
SPARE A B
11
USQ61 - 1A16C
USQ61 - 3A16N
(CB182) 18
(GND) 18
USQ61 - 2A16
USQ61 - 2B16
USQ61 - 2C16
USQ61 - 84C16
USQ61 - 84D16
USQ61 - 84B16
USQ61 - 85B16
GND - 20
TB386 (COCKPIT)
1
4
3
6
5
10
GND - 20
USQ61 - 2D10
USQ61 - 84A10N
USQ61 - 85A16N
13
(CB - 183) 18
(GND) 18
P/O INTERIOR AND EXTERIOR
LIGHTS PANEL (FORWARD
EQUIPMENT COMPARTMENT)
14
20 (M)
USQ61 - 27A20
TB327
12
+28VDC BUS
CONSOLE LIGHTS
DIMMER
7 (PNL LTS)
USQ61 - 28A20
TB325
9
+5 VDC BUS
CONSOLE LIGHTS
DIMMER
P/O INDICATOR CONTROL
C-9538/ALQ-133
REF DESIG PREFIX 32A5
(COCKPIT)
31W25P2 J5
B D F NOT USED
E SPARE
C +28V DC RTN(-) ZEROIZE
A +ZEROIZE
12
1 (14)
1 (10)
1 (3)
USQ61 - 82A22
USQ61 - 81A22
USQ61 - 80A22
J4
31W29P1
POWER ON A
+28VDC RTN (-) ZEROIZE B
CHASSIS GND C
POWER OFF D
+28 VDC (+) ZEROIZE E
SPARE F
USQ61 - 62A20
USQ61 - 63A20
USQ61 - 64A20
USQ61 - 65A20
USQ61 - 66A20
USQ61 - 67A20
31W29P2 J1
A PWR ON
B +28V DC RTN(-) ZEROIZE
C CHASSIS GND
D PWR OFF
E +28V DC(+) ZEROIZE
F SPARE
P/O SHOCK MOUNT MT-4903/USQ-61
P/O MONITOR-CONTROL
C-9537/ALQ-133
REF DESIG PREFIX 32A8
(MID SECTION)
15
2 (A4J2)
USQ61 - 68A
31W24P1 J15
2 (A6J2)
USQ61 - 69A
31W22P1 J14
2 (A5J2)
USQ61 - 70A
31W23P1 J13
16
31W31P1 J16
4 (1) USQ61 - 43A22 1 TEST #
4 (2) USQ61 - 44A22 2 TEST $
4 (3) USQ61 - 45A22 3 XMT #
4 (4) USQ61 - 46A22 4 XMT $
4 (5) USQ61 - 47A22 5 CLOCK #
4 (6) USQ61 - 48A22 6 CLOCK $
4 (7) USQ61 - 49A22 7
4 (8) USQ61 - 50A22 8 GND
4 (9) USQ61 - 51A22 9
4 (10) USQ61 - 52A22 10 SPARES
11 12 13 NOT USED
17
31W25P1 J12
1 (1) USQ61 - 71A22 1 GND
1 (15) USQ61 - 72A22 2 ALRM
1 (4) USQ61 - 73A22 4 XMT IND
1 (6) USQ61 - 74A22 6
1 (7) USQ61 - 75A22 7 SPARES
1 (8) USQ61 - 76A22 8 PREP-/
1 (9) USQ61 - 77A22 9 GND
1 (11) USQ61 - 78A22 11 FLOP
1 (12) USQ61 - 79A22 12 ALRM RST-/
3 5 10 13 14 15 16 17 18 19 20 21 22 NOT USED
P/O REMOTE CIRCUIT BREAKER AC/DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19 (AFT SECTION)
18
CB183
USQ-61 DC
25A
13 (3)
USQ61 - 2D10
2 1
P1608D10
TB355
3
+28 VDC
NON-ESSENTIAL
BUS
13 (5)
USQ61 - 84A10N
GND - 20
CB182
USQ-61 AC
10A
11 (C)
USQ61 - 1A16C
2 1
X33T16C
TB351
6
PHASE C
AC POWER
11 (D)
USQ61 - 3A16N
GND - 20

NOTES

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS.

KY28 16 C 22 N

FACILITY OR FUNCTION / CIRCUIT / WIRE SEGMENT / WIRE SIZE / GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS.

BASE LINE 24 (88) LOCATION PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. INDICATES SHIELD CONNECTION.

INFORMATION ON THIS SHEET
PERTAINS TO AIRCRAFT INCORPORATING
MWO 55-1510-213-50-4

1-EL22T378

Figure FO-23.1. Data link facility wiring diagram (sheet 2 of 2)

THIS SHEET CONTAINS
STATIONS 1 THRU 4

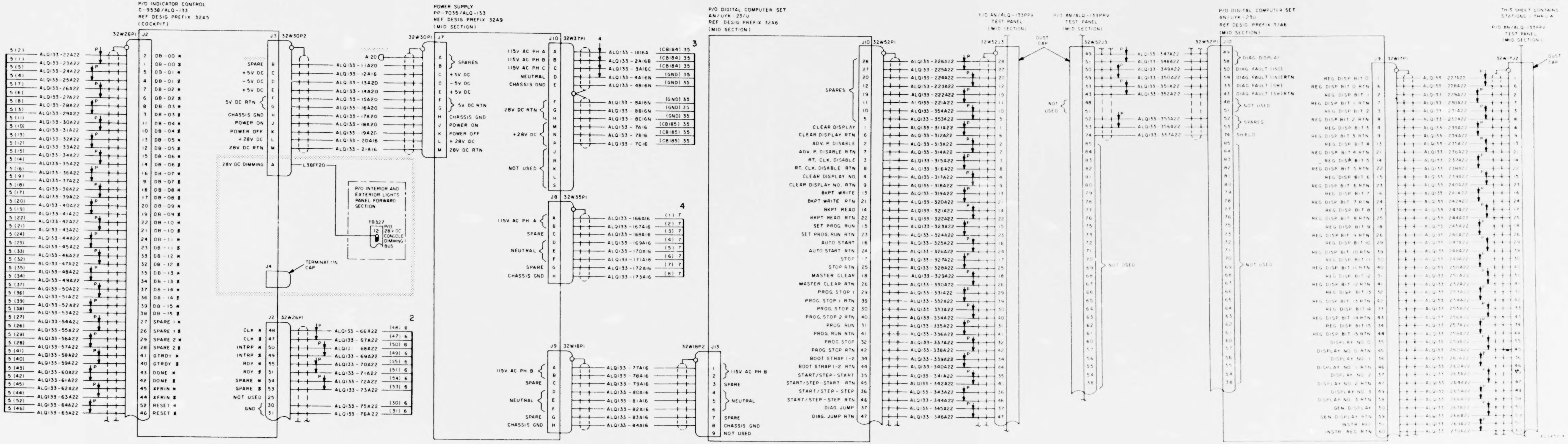
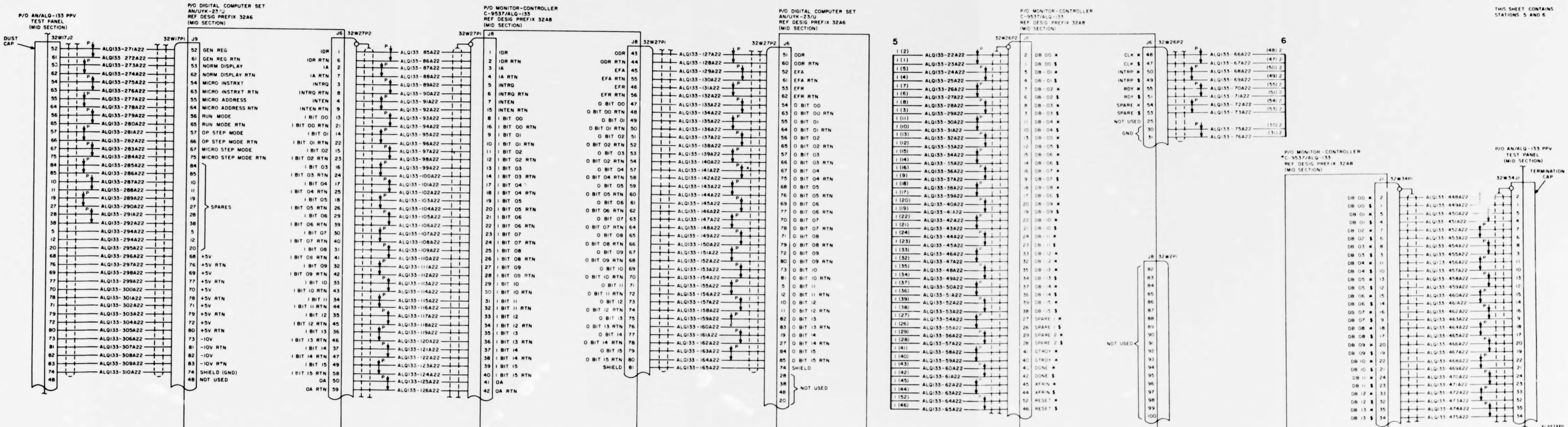
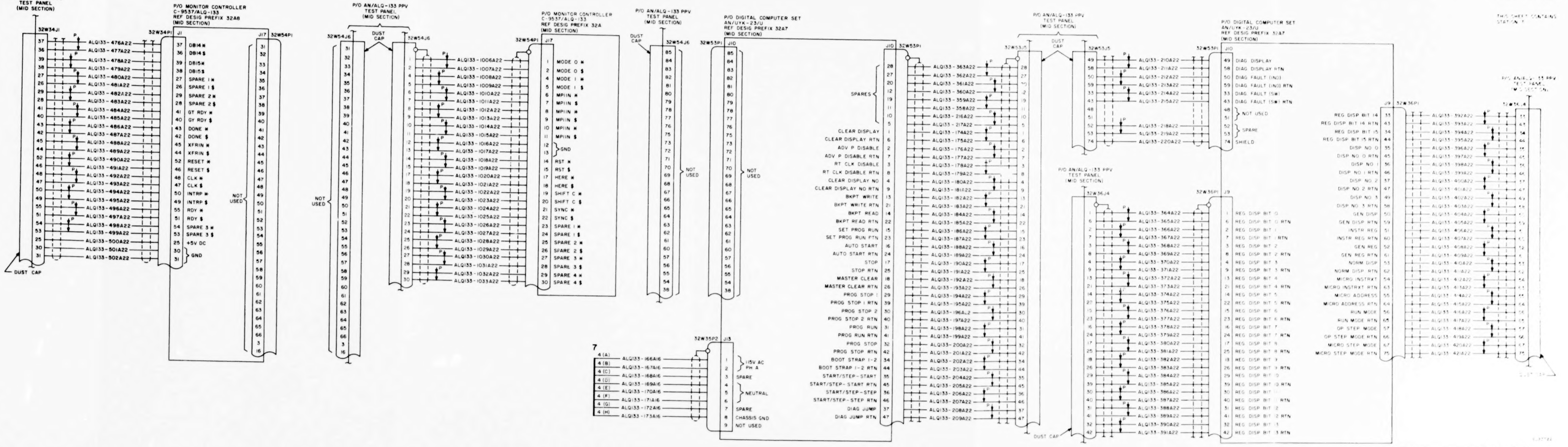

P/O INDICATOR CONTROL
C-9538/ALQ-133
REF DESIG PREFIX 32A5
(COCKPIT)
32W26P1
J2
J3
32W30P2
J4
TERMINATION CAP
P/O INTERIOR AND EXTERIOR LIGHTS PANEL FORWARD SECTION
TB327
P/O 28 V DC CONSOLE DIMMING BUS
L38FF20
28V DC DIMMING
32W26P1
POWER SUPPLY
PP-7035/ALQ-133
REF DESIG PREFIX 32A9
(MID SECTION)
32W30P1
J7
J10
32W37P1
J8
32W35P1
J9
32W18P1
32W18P2
J13
P/O DIGITAL COMPUTER SET
AN/UYK-23/U
REF DESIG PREFIX 32A6
(MID SECTION)
J10
32W52P1
P/O AN/ALQ-133PPV
TEST PANEL
(MID SECTION)
32W52J3
DUST CAP
P/O AN/ALQ-133PPV
TEST PANEL
(MID SECTION)
32W52J3
32W52P1
P/O DIGITAL COMPUTER SET
AN/UYK-23U
REF DESIG PREFIX 32A6
(MID SECTION)
J10
J9
32W17P1
P/O AN/ALQ-133PPV
TEST PANEL
(MID SECTION)
32W17J2
DUST CAP
NOT USED
SPARES
DIAG DISPLAY
DIAG FAULT (IND)
DIAG FAULT (IND) RTN
DIAG FAULT (SW)
DIAG FAULT (SW) RTN
SHIELD
115V AC PH A
115V AC PH B
115V AC PH C
NEUTRAL
CHASSIS GND
28V DC RTN
+28V DC
+5V DC
-5V DC
5V DC RTN
POWER ON
POWER OFF
2
3
4

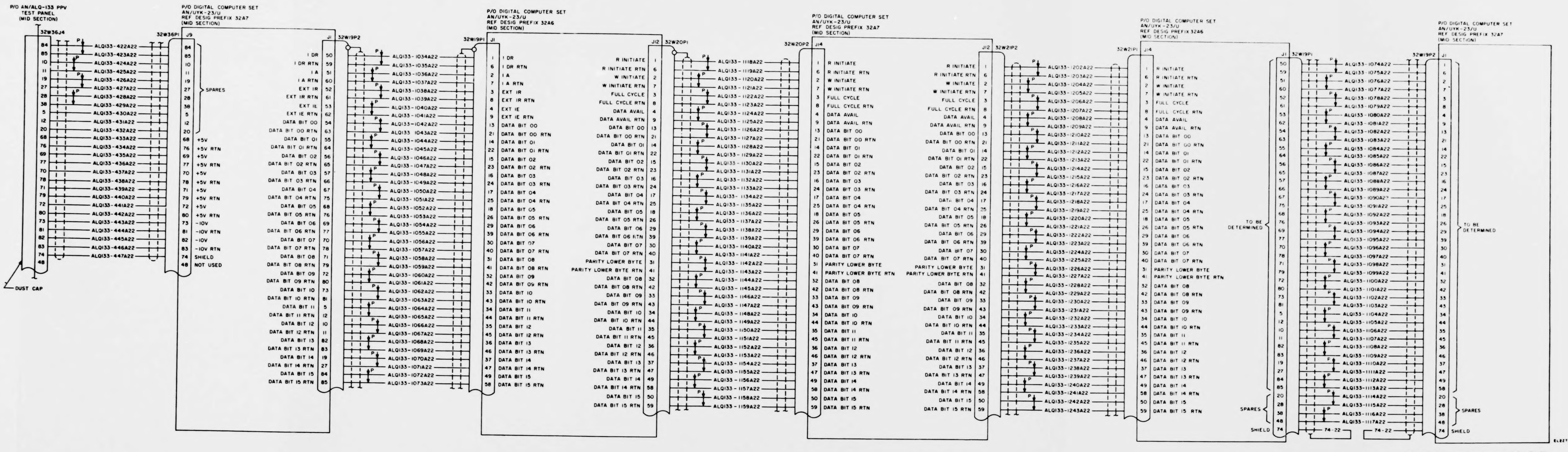
Figure FO-24. Countermeasures receiving facility wiring diagram (sheet 1 of 9)


P/O AN/ALQ-133 PPV TEST PANEL (MID SECTION)
DUST CAP
32W17J2
32W17P1
P/O DIGITAL COMPUTER SET AN/UYK-23/U REF DESIG PREFIX 32A6 (MID SECTION)
J9
J6
32W27P2
SPARES
P/O MONITOR-CONTROLLER C-9537/ALQ-133 REF DESIG PREFIX 32A8 (MID SECTION)
J8
32W27P1
P/O DIGITAL COMPUTER SET AN/UYK-23/U REF DESIG PREFIX 32A6 (MID SECTION)
NOT USED
5
P/O MONITOR-CONTROLLER C-9537/ALQ-133 REF DESIG PREFIX 32A8 (MID SECTION)
32W26P2
6
GND
32W2P1
THIS SHEET CONTAINS STATIONS 5 AND 6
P/O MONITOR-CONTROLLER *C-9537/ALQ-133 REF DESIG PREFIX 32A8 (MID SECTION)
J1
32W34P1
P/O AN/ALQ-133 PPV TEST PANEL (MID SECTION)
32W34J1
TERMINATION CAP
EL2Z7220

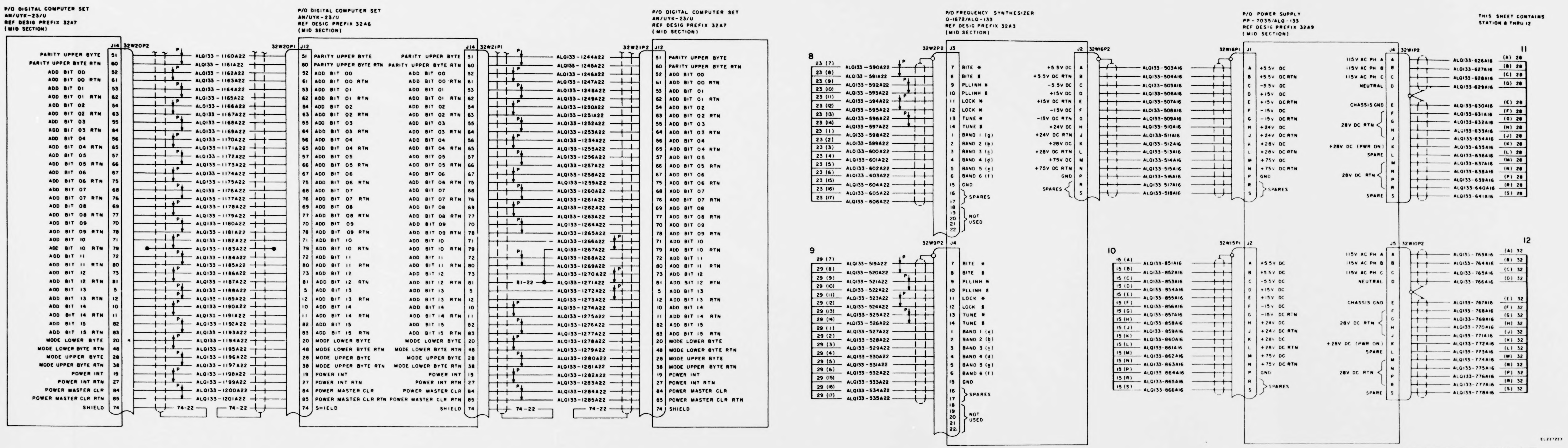
FO-24. Countermeasures receiving facility wiring diagram (sheet 2 of 9).


P/O AN/ALQ-133 PPV TEST PANEL (MID SECTION)
32W34J1
P/O MONITOR CONTROLLER C-9537/ALQ-133 REF DESIG PREFIX 32A8 (MID SECTION)
32W34P1
J1
J17
32W54P1
NOT USED
DUST CAP
GND
P/O AN/ALQ-133 PPV TEST PANEL (MID SECTION)
32W54J6
P/O MONITOR CONTROLLER C-9537/ALQ-133 REF DESIG PREFIX 32A (MID SECTION)
P/O AN/ALQ-133 PPV TEST PANEL (MID SECTION)
32W54J6
P/O DIGITAL COMPUTER SET AN/UYK-23/U REF DESIG PREFIX 32A7 (MID SECTION)
32W53P1
J10
32W35P2
J13
115V AC PH A
SPARE
NEUTRAL
CHASSIS GND
NOT USED
SPARES
P/O AN/ALQ-133 PPV TEST PANEL (MID SECTION)
32W53J5
P/O DIGITAL COMPUTER SET AN/UYK-23/U REF DESIG PREFIX 32A7 (MID SECTION)
DIAG DISPLAY
DIAG DISPLAY RTN
DIAG FAULT (IND)
DIAG FAULT (IND) RTN
DIAG FAULT (SW)
DIAG FAULT (SW) RTN
SHIELD
P/O AN/ALQ-133 PPV TEST PANEL (MID SECTION)
32W36J4
32W36P1
J9
THIS SHEET CONTAINS STATION 7

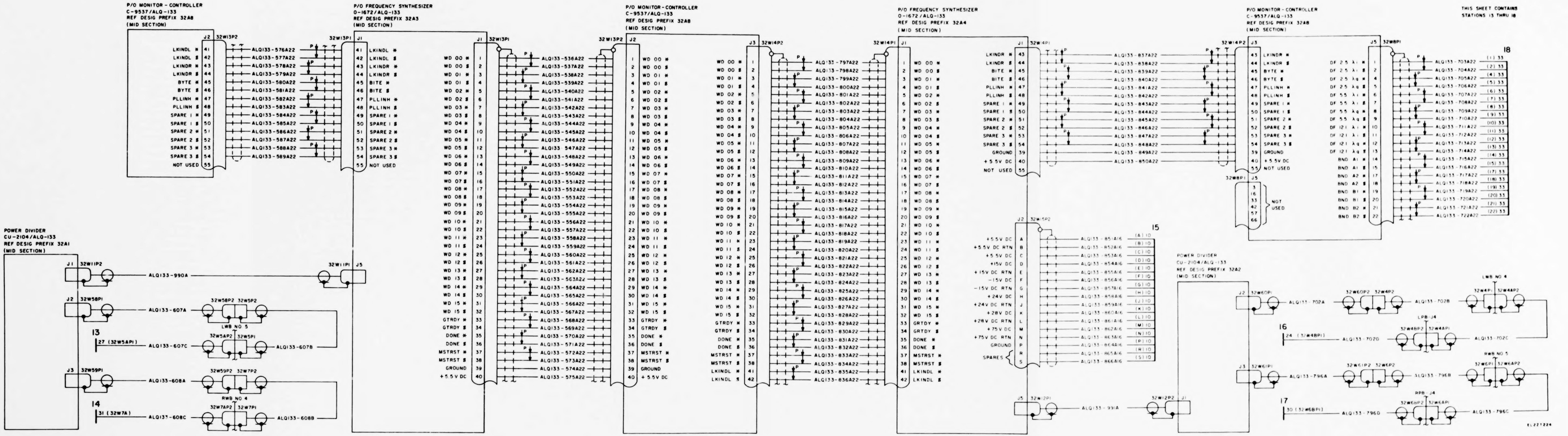
FO-24. Countermeasures receiving facility wiring diagram (sheet 3 of 9)


P/O AN/ALQ-133 PPV TEST PANEL (MID SECTION)
32W36J4
32W36P1
J9
SPARES
DUST CAP
P/O DIGITAL COMPUTER SET AN/UYK-23/U REF DESIG PREFIX 32A7 (MID SECTION)
J1
32W19P2
32W19P1
P/O DIGITAL COMPUTER SET AN/UYK-23/U REF DESIG PREFIX 32A6 (MID SECTION)
J1
J12
32W20P1
32W20P2
P/O DIGITAL COMPUTER SET AN/UYK-23/U REF DESIG PREFIX 32A7 (MID SECTION)
J14
J12
32W21P2
32W21P1
P/O DIGITAL COMPUTER SET AN/UYK-23/U REF DESIG PREFIX 32A6 (MID SECTION)
J14
J1
32W19P1
32W19P2
P/O DIGITAL COMPUTER SET AN/UYK-23/U REF DESIG PREFIX 32A7 (MID SECTION)
J1
TO BE DETERMINED
SPARES
SHIELD
74-22
EL8ZT228

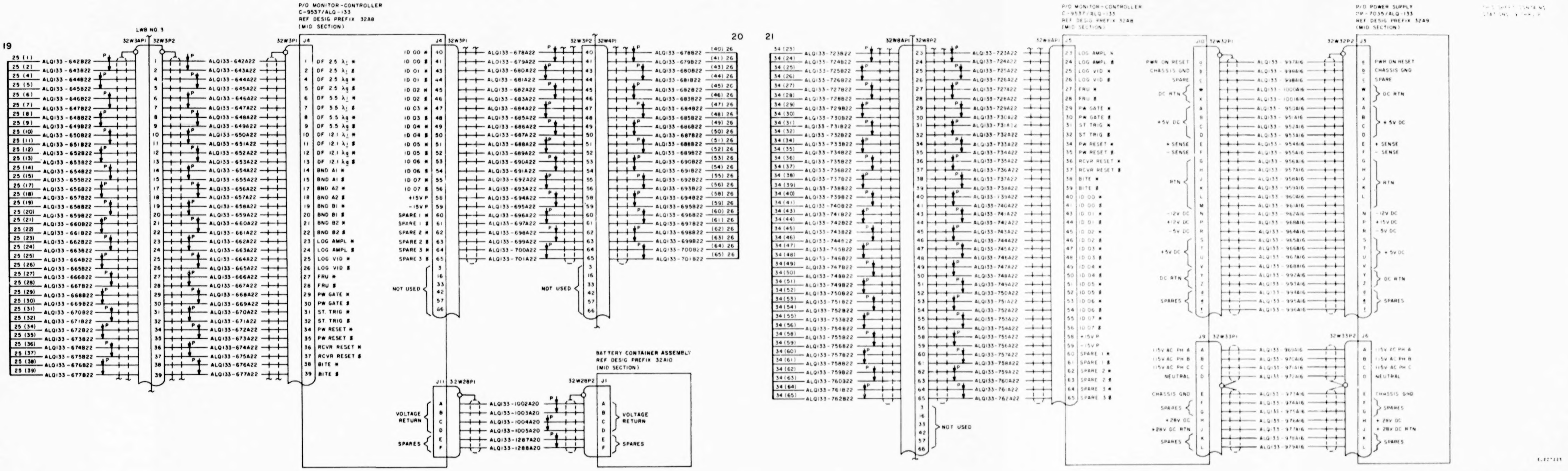
FO-24. Countermeasures receiving facility wiring diagram (sheet 4 of 9).


P/O DIGITAL COMPUTER SET
AN/UYK-23/U
REF DESIG PREFIX 32A7
(MID SECTION)
J14
32W20P2
32W20P1
J12
P/O DIGITAL COMPUTER SET
AN/UYK-23/U
REF DESIG PREFIX 32A6
(MID SECTION)
J14
32W21P1
32W21P2
J12
P/O DIGITAL COMPUTER SET
AN/UYK-23/U
REF DESIG PREFIX 32A7
(MID SECTION)
PARITY UPPER BYTE
PARITY UPPER BYTE RTN
ADD BIT 00
ADD BIT 00 RTN
ADD BIT 01
ADD BIT 01 RTN
ADD BIT 02
ADD BIT 02 RTN
ADD BIT 03
ADD BIT 03 RTN
ADD BIT 04
ADD BIT 04 RTN
ADD BIT 05
ADD BIT 05 RTN
ADD BIT 06
ADD BIT 06 RTN
ADD BIT 07
ADD BIT 07 RTN
ADD BIT 08
ADD BIT 08 RTN
ADD BIT 09
ADD BIT 09 RTN
ADD BIT 10
ADD BIT 10 RTN
ADD BIT 11
ADD BIT 11 RTN
ADD BIT 12
ADD BIT 12 RTN
ADD BIT 13
ADD BIT 13 RTN
ADD BIT 14
ADD BIT 14 RTN
ADD BIT 15
ADD BIT 15 RTN
MODE LOWER BYTE
MODE LOWER BYTE RTN
MODE UPPER BYTE
MODE UPPER BYTE RTN
POWER INT
POWER INT RTN
POWER MASTER CLR
POWER MASTER CLR RTN
SHIELD
ALQ133-1160A22 … ALQ133-1201A22
ALQ133-1244A22 … ALQ133-1285A22
74-22
81-22
P
P/O FREQUENCY SYNTHESIZER
O-1672/ALQ-133
REF DESIG PREFIX 32A3
(MID SECTION)
8
32W2P2
J3
J2
32W16P2
BITE *
BITE $
PLLINH *
PLLINH $
LOCK *
LOCK $
TUNE *
TUNE $
BAND 1 (g)
BAND 2 (b)
BAND 3 (c)
BAND 4 (d)
BAND 5 (e)
BAND 6 (f)
GND
SPARES
NOT USED
ALQ133-590A22 … ALQ133-606A22
+5.5V DC
+5.5V DC RTN
-5.5V DC
+15V DC
+15V DC RTN
-15V DC
-15V DC RTN
+24V DC
+24V DC RTN
+28V DC
+28V DC RTN
+75V DC
+75V DC RTN
GND
SPARES
ALQ133-503A16 … ALQ133-518A16
9
32W9P2
J4
ALQ133-519A22 … ALQ133-535A22
P/O POWER SUPPLY
PP-7035/ALQ-133
REF DESIG PREFIX 32A9
(MID SECTION)
32W16P1
J1
10
32W15P1
J2
ALQ133-851A16 … ALQ133-866A16
THIS SHEET CONTAINS
STATION 8 THRU 12
J4
32W1P2
11
115V AC PH A
115V AC PH B
115V AC PH C
NEUTRAL
CHASSIS GND
28V DC RTN
+28V DC (PWR ON)
SPARE
28V DC RTN
SPARE
ALQ133-626A16 … ALQ133-641A16
(A) 28 … (S) 28
J5
32W10P2
12
ALQ133-763A16 … ALQ133-778A16
(A) 32 … (S) 32
EL227323

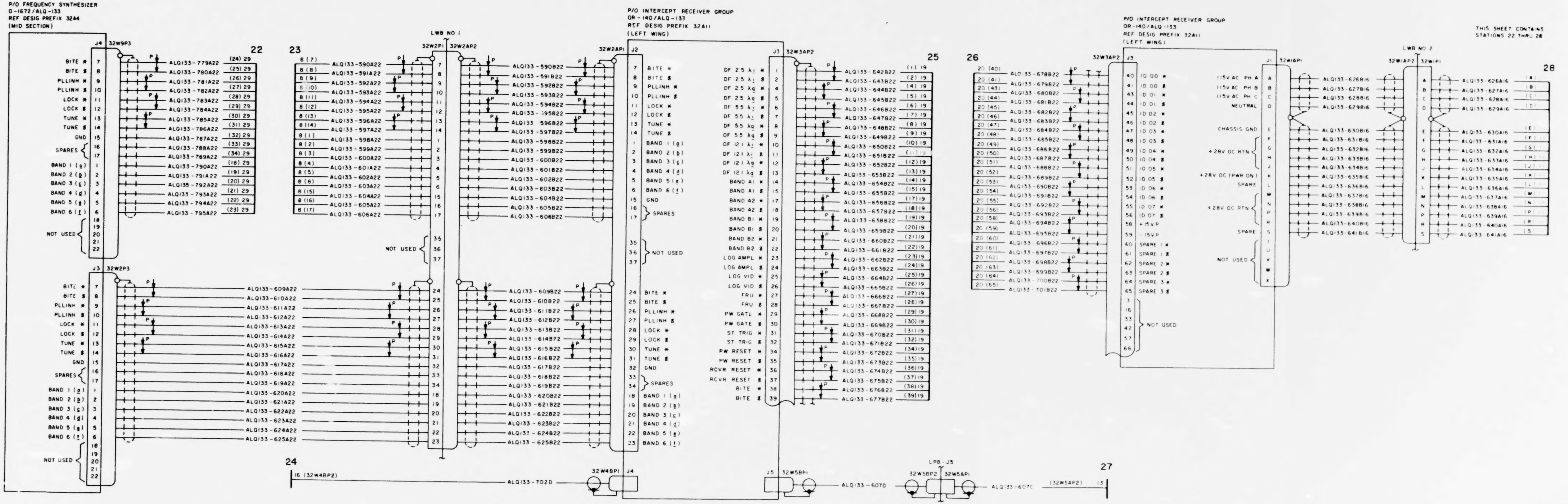
FO-24. Countermeasures receiving facility wiring diagram (sheet 5 of 9).


P/O MONITOR - CONTROLLER
C-9537/ALQ-133
REF DESIG PREFIX 32A8
(MID SECTION)
P/O FREQUENCY SYNTHESIZER
O-1672/ALQ-133
REF DESIG PREFIX 32A3
(MID SECTION)
P/O MONITOR - CONTROLLER
C-9537/ALQ-133
REF DESIG PREFIX 32A8
(MID SECTION)
P/O FREQUENCY SYNTHESIZER
O-1672/ALQ-133
REF DESIG PREFIX 32A4
(MID SECTION)
P/O MONITOR - CONTROLLER
C-9537/ALQ-133
REF DESIG PREFIX 32A8
(MID SECTION)
THIS SHEET CONTAINS
STATIONS 13 THRU 18
POWER DIVIDER
CU-2104/ALQ-133
REF DESIG PREFIX 32A1
(MID SECTION)
POWER DIVIDER
CU-2104/ALQ-133
REF DESIG PREFIX 32A2
(MID SECTION)
13
14
15
16
17
18
LWB NO 5
RWB NO 4
LWB NO 4
LPB - J4
RWB NO 5
RPB - J4
NOT USED
EL221224

FO-24. Countermeasures receiving facility wiring diagram (sheet 6 of 9).

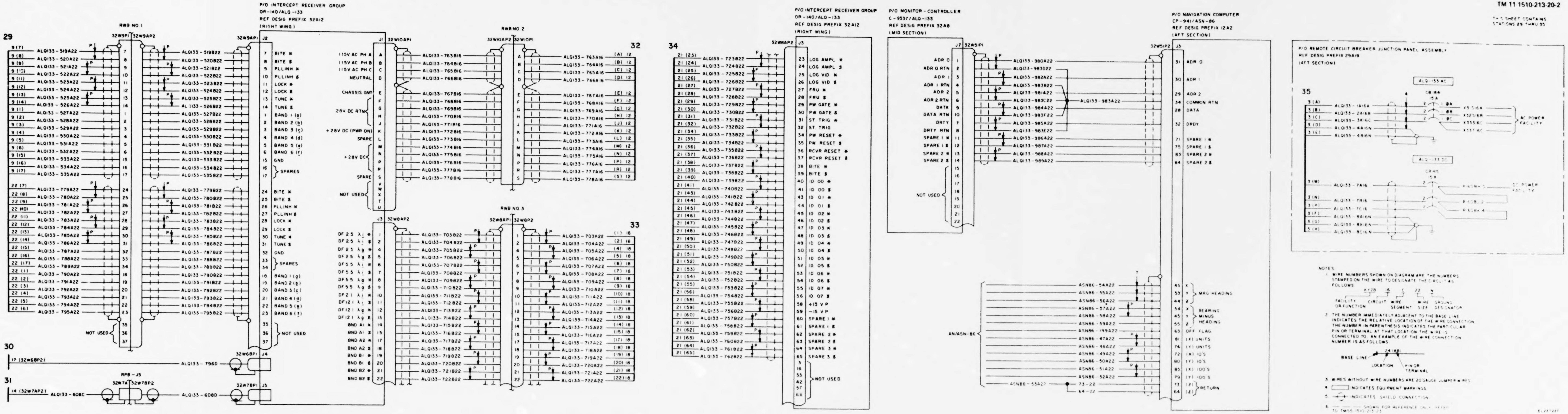

19
LWB NO. 3
32W3AP1
32W3P2
32W3P1
J4
P/O MONITOR-CONTROLLER
C-9537/ALQ-133
REF DESIG PREFIX 32A8
(MID SECTION)
32W3P2
32W4P1
20
NOT USED
NOT USED
J11
32W28P1
VOLTAGE RETURN
SPARES
BATTERY CONTAINER ASSEMBLY
REF DESIG PREFIX 32A10
(MID SECTION)
32W28P2
J1
21
32W8AP1
32W8P2
NOT USED
P/O MONITOR-CONTROLLER
C-9537/ALQ-133
REF DESIG PREFIX 32A8
(MID SECTION)
J5
J10
32W32P1
J9
32W33P1
P/O POWER SUPPLY
PP-7035/ALQ-133
REF DESIG PREFIX 32A9
(MID SECTION)
32W32P2
J3
32W33P2
J6

FO-24. Countermeasures receiving facility wiring diagram (sheet 7 of 9).


P/O FREQUENCY SYNTHESIZER
O-1672/ALQ-133
REF DESIG PREFIX 32A4
(MID SECTION)
J4
32W9P3
J3
32W2P3
22
23
24
LWB NO 1
32W2P1
32W2AP2
P/O INTERCEPT RECEIVER GROUP
OR-140/ALQ-133
REF DESIG PREFIX 32A11
(LEFT WING)
32W2AP1
J2
J3
32W3AP2
25
26
32W4BP1
J4
J5
32W5BP1
LPB-J5
32W5BP2
32W5AP1
27
32W3AP2
J3
J1
32W1AP1
LWB NO 2
32W1AP2
32W1P1
THIS SHEET CONTAINS
STATIONS 22 THRU 28
28
NOT USED
SPARES
CHASSIS GND
+28V DC RTN
+28V DC (PWR ON)
115V AC PH A
115V AC PH B
115V AC PH C
NEUTRAL
ALQ133-702D
ALQ133-607D
ALQ133-607C

FO-24. Countermeasures receiving facility wiring diagram (sheet 8 of 9)

THIS SHEET CONTAINS
STATIONS 29 THRU 35


29
RWB NO 1
32W9P1
32W9AP2
32W9AP1
J2
P/O INTERCEPT RECEIVER GROUP
OR-140/ALQ-133
REF DESIG PREFIX 32A12
(RIGHT WING)
J1
32W10AP1
RWB NO 2
32W10AP2
32W10P1
32
J3
32W8AP1
RWB NO 3
32W8AP1
32W8P2
33
NOT USED
SPARES
30
17 (32W6BP2)
ALQ133 - 796D
32W6BP1
J4
31
14 (32W7AP2)
ALQ133 - 608C
RPB - J5
32W7A
32W7BP2
ALQ133 - 608D
32W7BP1
J5
34
32W8AP2
J3
P/O INTERCEPT RECEIVER GROUP
OR-140/ALQ-133
REF DESIG PREFIX 32A12
(RIGHT WING)
P/O MONITOR-CONTROLLER
C-9537/ALQ-133
REF DESIG PREFIX 32A8
(MID SECTION)
J7
32W5P1
ALQ133-983A22
P/O NAVIGATION COMPUTER
CP-941/ASN-86
REF DESIG PREFIX 12A2
(AFT SECTION)
32W5P2
J3
AN/ASN-86
MAG HEADING
BEARING MINUS HEADING
RETURN
P/O REMOTE CIRCUIT BREAKER JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
ALQ-133 AC
35
CB184
15A
AC POWER FACILITY
ALQ-133 DC
CB185
15A
DC POWER FACILITY

NOTES

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS

KY28 16 C 22 N
FACILITY OR FUNCTION · CIRCUIT · WIRE SEGMENT · WIRE SIZE · GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS.

24 (BB)
BASE LINE · LOCATION · PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

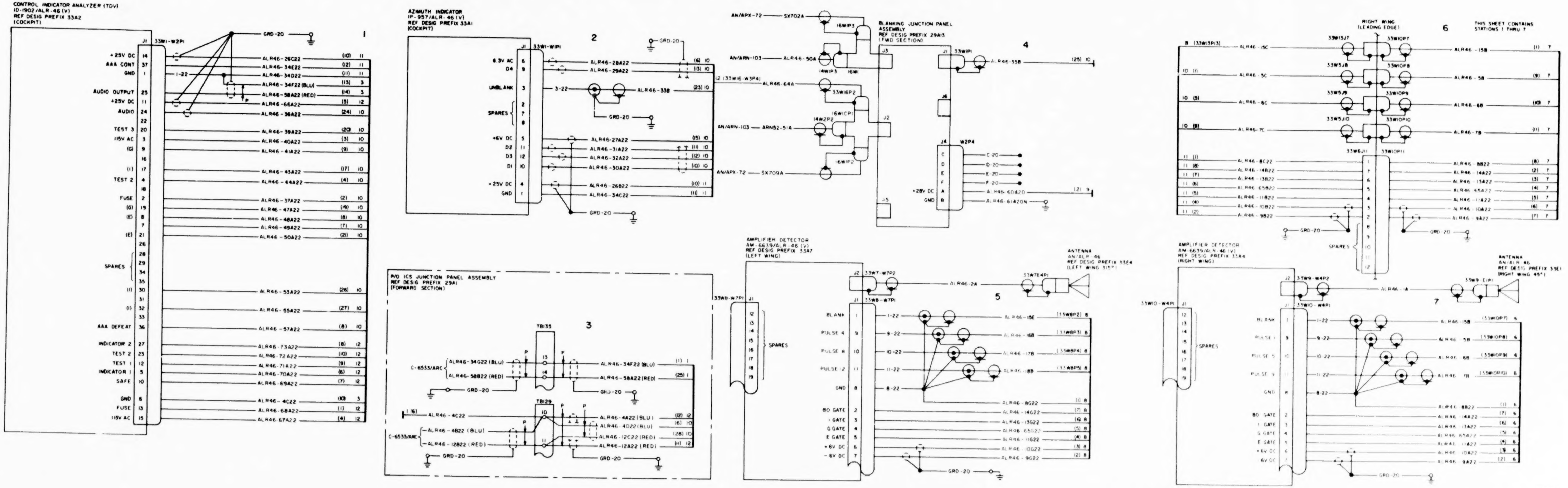
4. ☐ INDICATES EQUIPMENT MARKINGS.

5. INDICATES SHIELD CONNECTION.

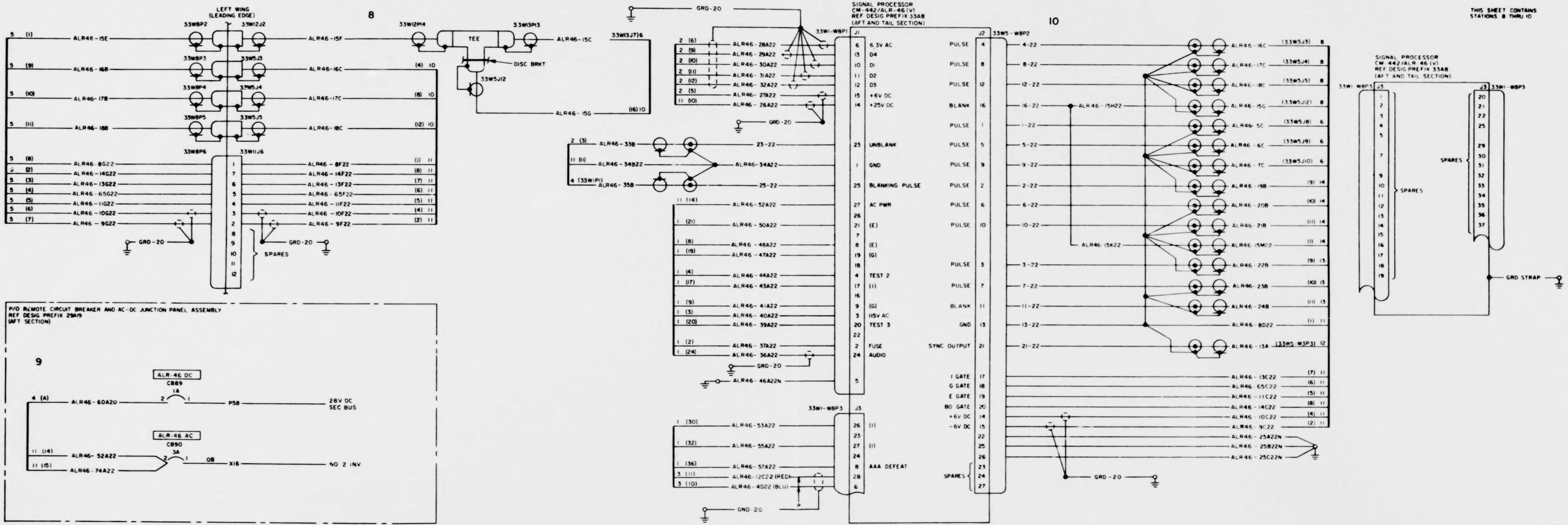
6. — — — SHOWN FOR REFERENCE ONLY. REFER TO TM55-1510-213-23.

EL2Z7227

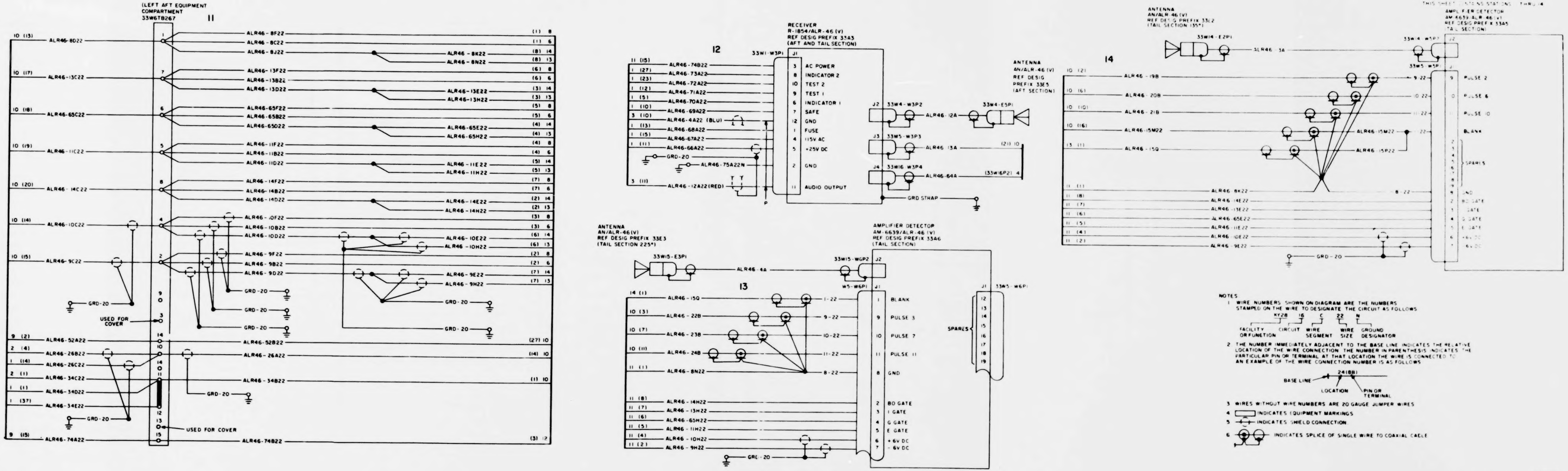
Figure FO-24. Countermeasures receiving facility wiring diagram (sheet 9 of 9)


CONTROL INDICATOR ANALYZER (TDV)
ID-1902/ALR-46 (V)
REF DESIG PREFIX 33A2
(COCKPIT)
1
AZMUTH INDICATOR
IP-957/ALR-46 (V)
REF DESIG PREFIX 33A1
(COCKPIT)
2
P/O ICS JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A1
(FORWARD SECTION)
3
TB135
TB129
BLANKING JUNCTION PANEL
ASSEMBLY
REF DESIG PREFIX 29A13
(FWD SECTION)
4
AN/APX-72
AN/ARN-103
AMPLIFIER DETECTOR
AM-6639/ALR-46 (V)
REF DESIG PREFIX 33A7
(LEFT WING)
ANTENNA
AN/ALR-46
REF DESIG PREFIX 33E4
(LEFT WING 315°)
5
RIGHT WING
(LEADING EDGE)
6
THIS SHEET CONTAINS
STATIONS 1 THRU 7
AMPLIFIER DETECTOR
AM-6639/ALR-46 (V)
REF DESIG PREFIX 33A4
(RIGHT WING)
ANTENNA
AN/ALR-46
REF DESIG PREFIX 33E1
(RIGHT WING 45°)
7
GRD-20
SPARES
EL227228

FO-25 Radar warning receiver facility wiring diagram (sheet 1 of 3)


THIS SHEET CONTAINS STATIONS 8 THRU 10
8
9
10
LEFT WING (LEADING EDGE)
33W8P2
33W12J2
33W8P3
33W5J3
33W8P4
33W5J4
33W8P5
33W5J5
33W8P6
33W11J6
33W12P14
33W13P13
33W13J7
33W5J12
TEE
DISC BRKT
ALR46-15E
ALR46-15F
ALR46-15C
ALR46-15G
ALR46-16B
ALR46-16C
ALR46-17B
ALR46-17C
ALR46-18B
ALR46-18C
GRD-20
SPARES
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
(AFT SECTION)
ALR-46 DC
CB89
1A
ALR46-60A20
P58
28V DC SEC BUS
ALR-46 AC
CB90
3A
ALR46-52A22
ALR46-74A22
X16
NO 2 INV
SIGNAL PROCESSOR
CM-442/ALR-46(V)
REF DESIG PREFIX 33A8
(AFT AND TAIL SECTION)
33W1-W8P1
J1
J2
33W5-W8P2
J3
33W1-W8P3
6.3V AC
D4
D1
D2
D3
+6V DC
+25V DC
UNBLANK
GND
BLANKING PULSE
AC PWR
TEST 2
115V AC
TEST 3
FUSE
AUDIO
AAA DEFEAT
PULSE
BLANK
SYNC OUTPUT
I GATE
G GATE
E GATE
BO GATE
+6V DC
-6V DC
SPARES
GND-20
GRD STRAP
ALR46-15H22
ALR46-15K22
33W5-W3P3

FO-25. Radar warning receiver facility wiring diagram (sheet 2 of 3).



THIS SHEET CONTAINS STATIONS 11 THRU 14
11
(LEFT AFT EQUIPMENT COMPARTMENT 33W6TB267
ALR46-8D22
ALR46-13C22
ALR46-65C22
ALR46-11C22
ALR46-14C22
ALR46-10C22
ALR46-9C22
GRD-20
USED FOR COVER
ALR46-52A22
ALR46-26B22
ALR46-26C22
ALR46-34C22
ALR46-34D22
ALR46-34E22
ALR46-74A22
ALR46-52B22
ALR46-26A22
ALR46-34B22
ALR46-74B22
12
RECEIVER R-1854/ALR-46 (V) REF DESIG PREFIX 33A3 (AFT AND TAIL SECTION)
33W1-W3P1
J1
AC POWER
INDICATOR 2
TEST 2
TEST 1
INDICATOR 1
SAFE
GND
FUSE
115V AC
+25V DC
GND
AUDIO OUTPUT
ALR46-4A22 (BLU)
ALR46-75A22N
ALR46-12A22 (RED)
33W4-W3P2
33W5-W3P3
33W16-W3P4
ALR46-12A
ALR46-13A
ALR46-64A
GRD STRAP
ANTENNA AN/ALR-46 (V) REF DESIG PREFIX 33E5 (AFT SECTION)
33W4-E5P1
13
ANTENNA AN/ALR-46(V) REF DESIG PREFIX 33E3 (TAIL SECTION 225°)
33W15-E3P1
ALR46-4A
33W15-W6P2
AMPLIFIER DETECTOR AM-6639/ALR-46 (V) REF DESIG PREFIX 33A6 (TAIL SECTION)
W5-W6P1
33W5-W6P1
BLANK
PULSE 3
PULSE 7
PULSE 11
GND
BO GATE
I GATE
G GATE
E GATE
+6V DC
-6V DC
SPARES
14
ANTENNA AN/ALR-46 (V) REF DESIG PREFIX 33E2 (TAIL SECTION 135°)
33W14-E2P1
ALR46-3A
33W14-W5P2
33W5-W5P1
AMPLIFIER DETECTOR AM-6639/ALR-46 (V) REF DESIG PREFIX 33A5 (TAIL SECTION)
PULSE 2
PULSE 6
PULSE 10
BLANK
SPARES
GND
BO GATE
I GATE
G GATE
E GATE
+6V DC
-6V DC

NOTES

1 WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS

KY28 16 C 22 N

FACILITY OR FUNCTION CIRCUIT WIRE SEGMENT WIRE SIZE GROUND DESIGNATOR

2 THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS

24(BB)

BASE LINE LOCATION PIN OR TERMINAL

3 WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES

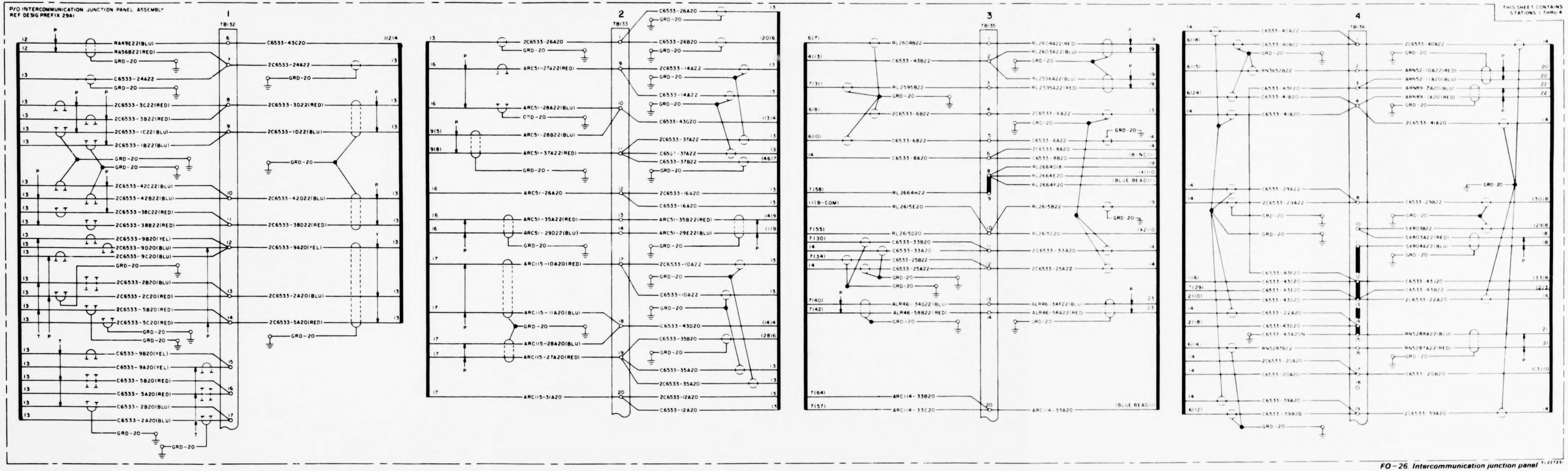
4 ▭ INDICATES EQUIPMENT MARKINGS

5 INDICATES SHIELD CONNECTION

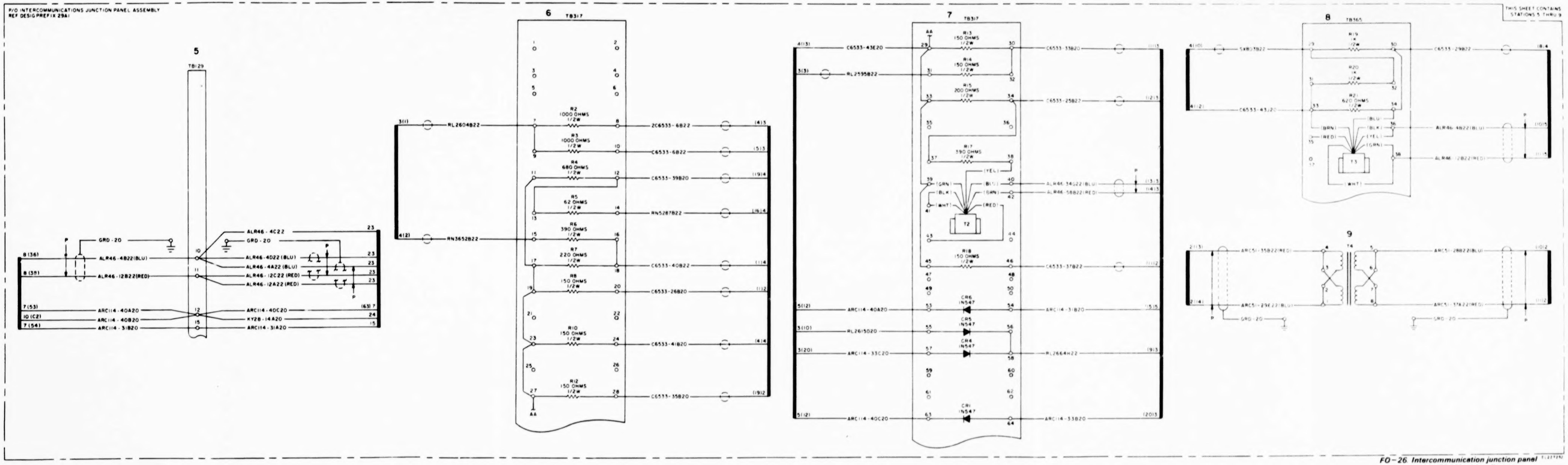
6 INDICATES SPLICE OF SINGLE WIRE TO COAXIAL CABLE

EL2ZT830

FO-25. Radar warning receiver facility wiring diagram (sheet 3 of 3)

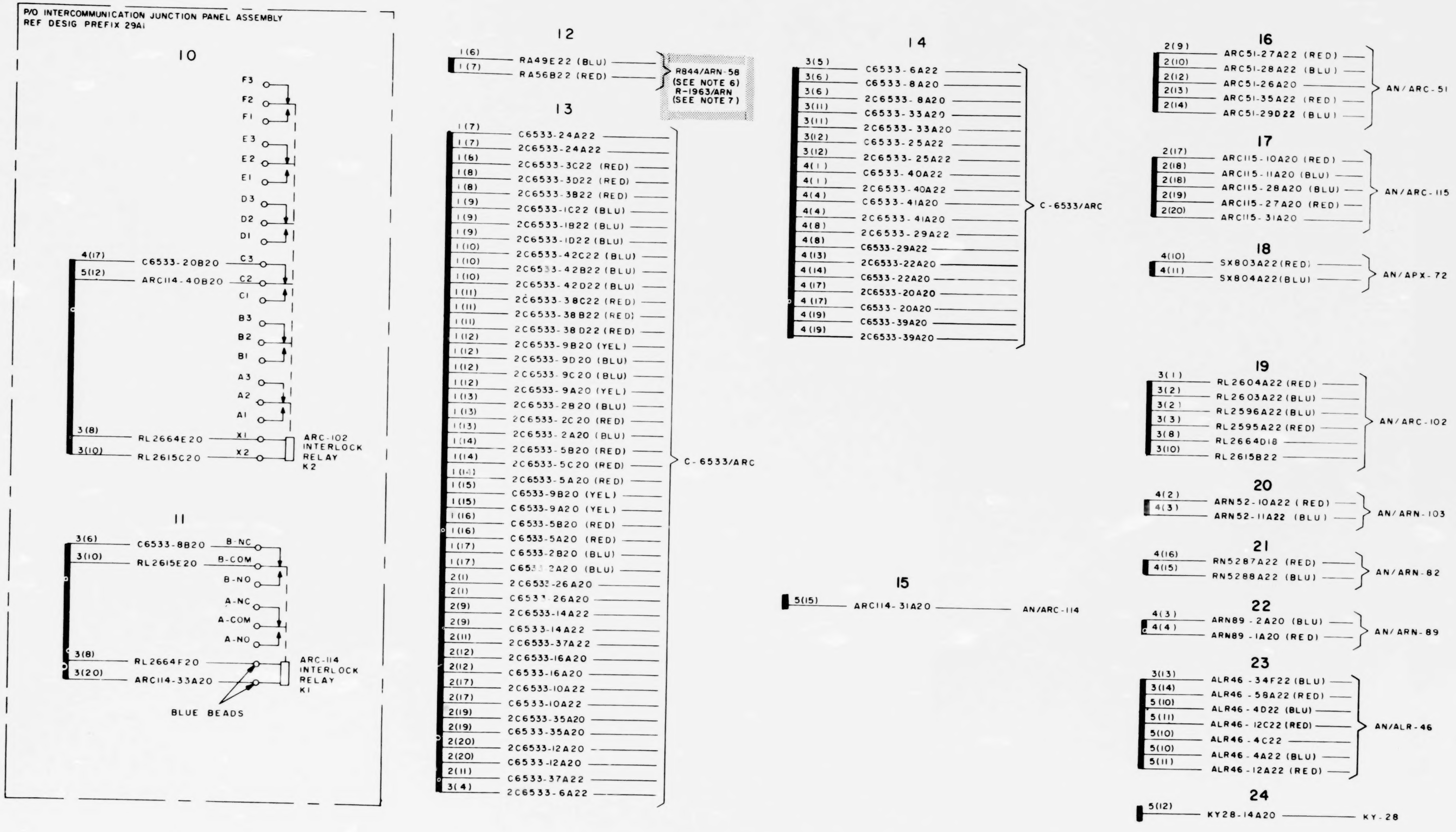

P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A1
THIS SHEET CONTAINS STATIONS 1 THRU 4
1
TB132
2
TB133
3
TB135
4
TB136
RA49E22(BLU)
RA56B22(RED)
GRD-20
C6533-43C20
C6533-24A22
2C6533-24A22
2C6533-3C22(RED)
2C6533-3B22(RED)
2C6533-1C22(BLU)
2C6533-1B22(BLU)
2C6533-3D22(RED)
2C6533-1D22(BLU)
2C6533-42C22(BLU)
2C6533-42B22(BLU)
2C6533-42D22(BLU)
2C6533-38C22(RED)
2C6533-38B22(RED)
2C6533-38D22(RED)
2C6533-9B20(YEL)
2C6533-9D20(BLU)
2C6533-9C20(BLU)
2C6533-9A20(YEL)
2C6533-2B20(BLU)
2C6533-2C20(RED)
2C6533-5B20(RED)
2C6533-5C20(RED)
2C6533-2A20(BLU)
2C6533-5A20(RED)
C6533-9B20(YEL)
C6533-9A20(YEL)
C6533-5B20(RED)
C6533-5A20(RED)
C6533-2B20(BLU)
C6533-2A20(BLU)
2C6533-26A20
ARC51-27A22(RED)
ARC51-28A22(BLU)
ARC51-28B22(BLU)
ARC51-37A22(RED)
ARC51-26A20
ARC51-35A22(RED)
ARC51-29D22(BLU)
ARC115-10A20(RED)
ARC115-11A20(BLU)
ARC115-28A20(BLU)
ARC115-27A20(RED)
ARC115-31A20
C6533-26A20
C6533-26B20
2C6533-14A22
C6533-14A22
C6533-43G20
2C6533-37A22
C6533-37A22
C6533-37B22
2C6533-16A20
C6533-16A20
ARC51-35B22(RED)
ARC51-29E22(BLU)
2C6533-10A22
C6533-10A22
C6533-43D20
C6533-35B20
C6533-35A20
2C6533-35A20
2C6533-12A20
C6533-12A20
RL2604B22
C6533-43B22
RL2595B22
2C6533-6B22
C6533-6B22
C6533-8A20
RL2664H22
RL2615E20
RL2615D20
C6533-33B20
C6533-33A20
C6533-25B22
C6533-25A22
ALR46-34G22(BLU)
ALR46-58B22(RED)
ARC114-33B20
ARC114-33C20
RL2604A22(RED)
RL2603A22(BLU)
RL2596A22(BLU)
RL2595A22(RED)
2C6533-6A22
C6533-6A22
2C6533-8A20
C6533-8B20
RL2664D18
RL2664E20
RL2664F20
(BLUE BEAD)
RL2615B22
RL2615C20
2C6533-33A20
2C6533-25A22
ALR46-34F22(BLU)
ALR46-58A22(RED)
ARC114-33A20
C6533-40A22
C6533-40B22
RN3652B22
C6533-43F20
C6533-41B20
C6533-41A20
C6533-29A22
2C6533-29A22
C6533-43E20
C6533-43C20
C6533-43D20
C6533-22A20
C6533-43G20
C6533-43A20N
RN5287B22
2C6533-20A20
C6533-20A20
C6533-39A20
C6533-39B20
2C6533-40A22
ARN52-10A22(RED)
ARN52-11A20(BLU)
ARN89-2A20(BLU)
ARN89-1A20(RED)
2C6533-41A20
C6533-29B22
SXR03B22
SXR03A22(RED)
SXR04A22(BLU)
C6533-43J20
C6533-41B22
2C6533-22A20
RN5288A22(BLU)
RN5287A22(RED)
C6533-20B20
2C6533-39A20
1-22123

FO-26. Intercommunication junction panel assembly (29A1) wiring diagram (sheet 1 of 3).


P/O INTERCOMMUNICATIONS JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A1
THIS SHEET CONTAINS STATIONS 5 THRU 9
5
TB129
8 (36)
8 (38)
P
GRD - 20
ALR46 - 4B22(BLU)
ALR46 - 12B22(RED)
10
11
ALR46 - 4C22
GRD - 20
ALR46 - 4D22 (BLU)
ALR46 - 4A22 (BLU)
ALR46 - 12C22 (RED)
ALR46 - 12A22 (RED)
23
7 (53)
10 (C2)
7 (54)
ARC114 - 40A20
ARC114 - 40B20
ARC114 - 31B20
12
15
ARC114 - 40C20
KY28 - 14A20
ARC114 - 31A20
(63) 7
24
15
6
TB317
3(1)
RL2604B22
4(2)
RN3652B22
R2 1000 OHMS 1/2W
R3 1000 OHMS 1/2W
R4 680 OHMS 1/2W
R5 62 OHMS 1/2W
R6 390 OHMS 1/2W
R7 220 OHMS 1/2W
R8 150 OHMS 1/2W
R10 150 OHMS 1/2W
R12 150 OHMS 1/2W
AA
2C6533 - 6B22
C6533 - 6B22
C6533 - 39B20
RN5287B22
C6533 - 40B22
C6533 - 26B20
C6533 - 41B20
C6533 - 35B20
(4)3
(5)3
(19)4
(16)4
(1)4
(1)2
(4)4
(19)2
7
TB317
4(13)
C6533-43E20
3(3)
RL2595B22
R13 150 OHMS 1/2W
R14 150 OHMS 1/2W
R15 200 OHMS 1/2W
R17 390 OHMS 1/2W
R18 150 OHMS 1/2W
(YEL)
(GRN)
(BLU)
(BLK)
(BRN)
(WHT)
(RED)
T2
C6533-33B20
C6533-25B22
ALR46-34G22(BLU)
ALR46-58B22(RED)
C6533-37B22
(1)3
(12)3
(13)3
(14)3
(1)2
5(12)
3(10)
3(20)
ARC114-40A20
RL2615D20
ARC114-33C20
ARC114-40C20
CR6 1N547
CR5 1N547
CR4 1N547
CR1 1N547
ARC114-31B20
RL2664H22
ARC114-33B20
(15)5
(9)3
(20)3
8
TB365
4(10)
SX803B22
4(2)
C6533-43J20
R19 1K 1/2W
R20 1K 1/2W
R21 620 OHMS 1/2W
(BLU)
(BRN)
(BLK)
(RED)
(YEL)
(GRN)
(WHT)
T3
C6533-29B22
ALR46-4B22(BLU)
ALR46-12B22(RED)
(8)4
(10)5
(11)5
9
T4
2(13)
2(14)
ARC51-35B22(RED)
ARC51-29E22(BLU)
GRD-20
ARC51-28B22(BLU)
ARC51-37A22(RED)
(10)2
(11)2

FO-26. *Intercommunication junction panel assembly (29A1) wiring diagram (sheet 2 of 3).*

THIS SHEET CONTAINS
STATIONS 10 THRU 24


P/O INTERCOMMUNICATION JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A1
10
F3
F2
F1
E3
E2
E1
D3
D2
D1
4(17)
C6533-20B20
C3
5(12)
ARC114-40B20
C2
C1
B3
B2
B1
A3
A2
A1
3(8)
RL2664E20
X1
3(10)
RL2615C20
X2
ARC-102
INTERLOCK
RELAY
K2
11
3(6)
C6533-8B20
B-NC
3(10)
RL2615E20
B-COM
B-NO
A-NC
A-COM
A-NO
3(8)
RL2664F20
3(20)
ARC114-33A20
ARC-114
INTERLOCK
RELAY
K1
BLUE BEADS
12
1(6)
RA49E22 (BLU)
1(7)
RA56B22 (RED)
R844/ARN-58
(SEE NOTE 6)
R-1963/ARN
(SEE NOTE 7)
13
1(7) C6533-24A22
1(7) 2C6533-24A22
1(6) 2C6533-3C22 (RED)
1(8) 2C6533-3D22 (RED)
1(8) 2C6533-3B22 (RED)
1(9) 2C6533-1C22 (BLU)
1(9) 2C6533-1B22 (BLU)
1(9) 2C6533-1D22 (BLU)
1(10) 2C6533-42C22 (BLU)
1(10) 2C6533-42B22 (BLU)
1(10) 2C6533-42D22 (BLU)
1(11) 2C6533-38C22 (RED)
1(11) 2C6533-38B22 (RED)
1(11) 2C6533-38D22 (RED)
1(12) 2C6533-9B20 (YEL)
1(12) 2C6533-9D20 (BLU)
1(12) 2C6533-9C20 (BLU)
1(12) 2C6533-9A20 (YEL)
1(13) 2C6533-2B20 (BLU)
1(13) 2C6533-2C20 (RED)
1(13) 2C6533-2A20 (BLU)
1(14) 2C6533-5B20 (RED)
1(14) 2C6533-5C20 (RED)
1(14) 2C6533-5A20 (RED)
1(15) C6533-9B20 (YEL)
1(15) C6533-9A20 (YEL)
1(16) C6533-5B20 (RED)
1(16) C6533-5A20 (RED)
1(17) C6533-2B20 (BLU)
1(17) C6533-2A20 (BLU)
2(1) 2C6533-26A20
2(1) C6533-26A20
2(9) 2C6533-14A22
2(9) C6533-14A22
2(11) 2C6533-37A22
2(12) 2C6533-16A20
2(12) C6533-16A20
2(17) 2C6533-10A22
2(17) C6533-10A22
2(19) 2C6533-35A20
2(19) C6533-35A20
2(20) 2C6533-12A20
2(20) C6533-12A20
2(11) C6533-37A22
3(4) 2C6533-6A22
C-6533/ARC
14
3(5) C6533-6A22
3(6) C6533-8A20
3(6) 2C6533-8A20
3(11) C6533-33A20
3(11) 2C6533-33A20
3(12) C6533-25A22
3(12) 2C6533-25A22
4(1) C6533-40A22
4(1) 2C6533-40A22
4(4) C6533-41A20
4(4) 2C6533-41A20
4(8) 2C6533-29A22
4(8) C6533-29A22
4(13) 2C6533-22A20
4(14) C6533-22A20
4(17) 2C6533-20A20
4(17) C6533-20A20
4(19) C6533-39A20
4(19) 2C6533-39A20
C-6533/ARC
15
5(15) ARC114-31A20
AN/ARC-114
16
2(9) ARC51-27A22 (RED)
2(10) ARC51-28A22 (BLU)
2(12) ARC51-26A20
2(13) ARC51-35A22 (RED)
2(14) ARC51-29D22 (BLU)
AN/ARC-51
17
2(17) ARC115-10A20 (RED)
2(18) ARC115-11A20 (BLU)
2(18) ARC115-28A20 (BLU)
2(19) ARC115-27A20 (RED)
2(20) ARC115-31A20
AN/ARC-115
18
4(10) SX803A22(RED)
4(11) SX804A22(BLU)
AN/APX-72
19
3(1) RL2604A22 (RED)
3(2) RL2603A22 (BLU)
3(2) RL2596A22 (BLU)
3(3) RL2595A22 (RED)
3(8) RL2664D18
3(10) RL2615B22
AN/ARC-102
20
4(2) ARN52-10A22 (RED)
4(3) ARN52-11A22 (BLU)
AN/ARN-103
21
4(16) RN5287A22 (RED)
4(15) RN5288A22 (BLU)
AN/ARN-82
22
4(3) ARN89-2A20 (BLU)
4(4) ARN89-1A20 (RED)
AN/ARN-89
23
3(13) ALR46-34F22 (BLU)
3(14) ALR46-58A22 (RED)
5(10) ALR46-4D22 (BLU)
5(11) ALR46-12C22 (RED)
5(10) ALR46-4C22
5(10) ALR46-4A22 (BLU)
5(11) ALR46-12A22 (RED)
AN/ALR-46
24
5(12) KY28-14A20
KY-28

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   KY28 16 C 22 N

   FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

   24 (88)

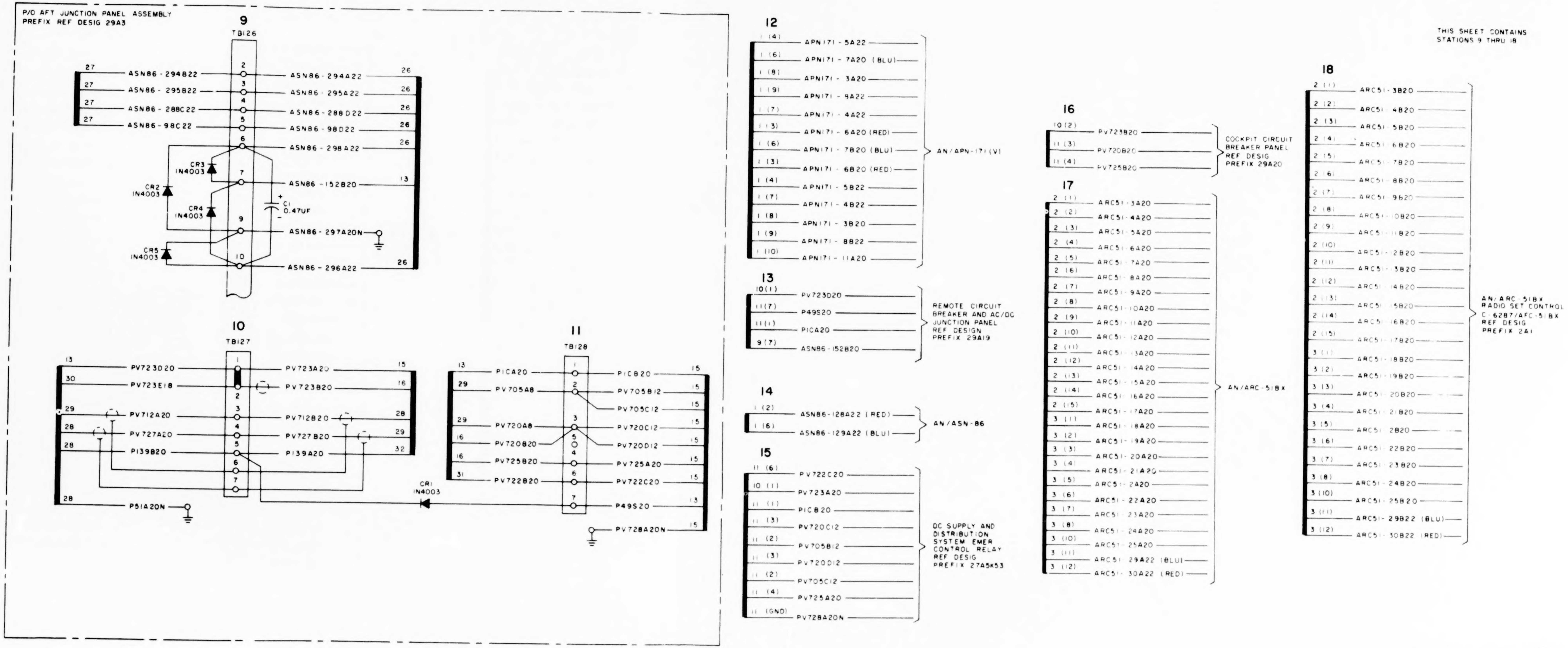
   BASE LINE — LOCATION — PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. -(-)- INDICATES SHEILD CONNECTION
6. APPLIES BEFORE INCORPORATION OF MWO55-1510-213-50-1
7. APPLIES AFTER INCORPORATION OF MWO55-1510-213-50-1

EL2ZT233

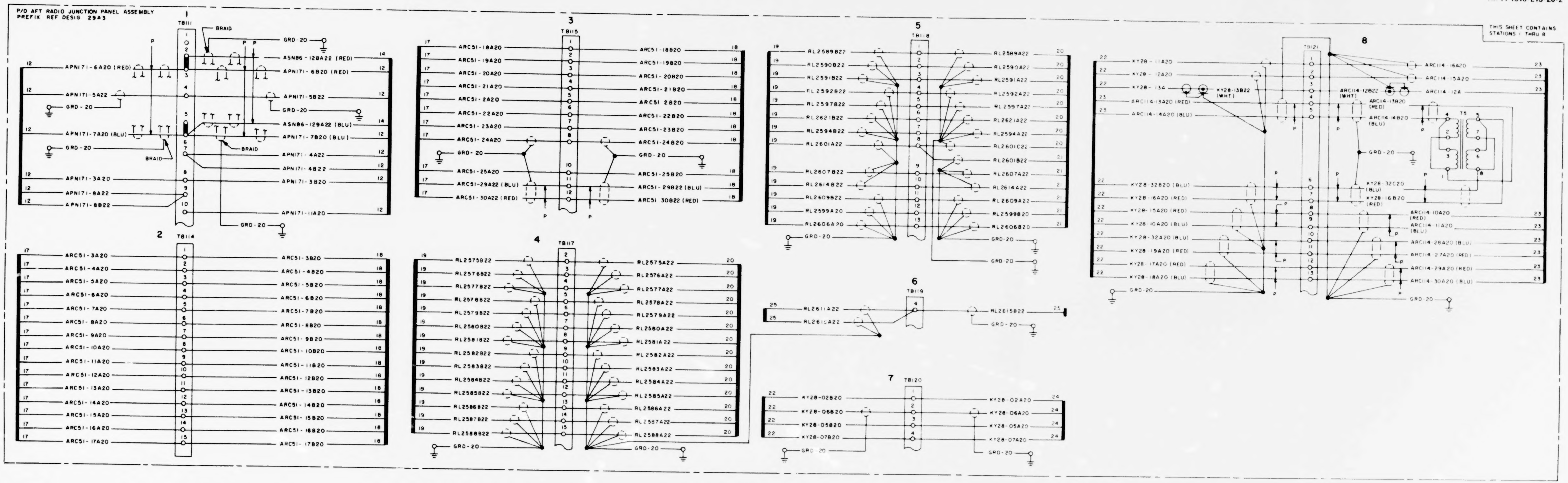
FO-26. Intercommunication junction panel assembly (29A1) wiring diagram (sheet 3 of 3).

THIS SHEET CONTAINS STATIONS 9 THRU 18


P/O AFT JUNCTION PANEL ASSEMBLY
PREFIX REF DESIG 29A3
9
TB126
ASN86-294B22
ASN86-295B22
ASN86-288C22
ASN86-98C22
ASN86-294A22
ASN86-295A22
ASN86-288D22
ASN86-98D22
ASN86-298A22
ASN86-152B20
ASN86-297A20N
ASN86-296A22
CR3 IN4003
CR2 IN4003
CR4 IN4003
CR5 IN4003
C1 0.47UF
10
TB127
PV723D20
PV723E18
PV712A20
PV727A20
P139B20
P51A20N
PV723A20
PV723B20
PV712B20
PV727B20
P139A20
CR1 IN4003
11
TB128
P1CA20
PV705A8
PV720A8
PV720B20
PV725B20
PV722B20
P1CB20
PV705B12
PV705C12
PV720C12
PV720D12
PV725A20
PV722C20
P49S20
PV728A20N
12
APN171-5A22
APN171-7A20 (BLU)
APN171-3A20
APN171-9A22
APN171-4A22
APN171-6A20 (RED)
APN171-7B20 (BLU)
APN171-6B20 (RED)
APN171-5B22
APN171-4B22
APN171-3B20
APN171-8B22
APN171-11A20
AN/APN-171(V)
13
PV723D20
P49S20
P1CA20
ASN86-152B20
REMOTE CIRCUIT BREAKER AND AC/DC JUNCTION PANEL REF DESIGN PREFIX 29A19
14
ASN86-128A22 (RED)
ASN86-129A22 (BLU)
AN/ASN-86
15
PV722C20
PV723A20
P1CB20
PV720C12
PV705B12
PV720D12
PV705C12
PV725A20
PV728A20N
DC SUPPLY AND DISTRIBUTION SYSTEM EMER CONTROL RELAY REF DESIG PREFIX 27A5K53
16
PV723B20
PV720B20
PV725B20
COCKPIT CIRCUIT BREAKER PANEL REF DESIG PREFIX 29A20
17
ARC51-3A20
ARC51-4A20
ARC51-5A20
ARC51-6A20
ARC51-7A20
ARC51-8A20
ARC51-9A20
ARC51-10A20
ARC51-11A20
ARC51-12A20
ARC51-13A20
ARC51-14A20
ARC51-15A20
ARC51-16A20
ARC51-17A20
ARC51-18A20
ARC51-19A20
ARC51-20A20
ARC51-21A20
ARC51-2A20
ARC51-22A20
ARC51-23A20
ARC51-24A20
ARC51-25A20
ARC51-29A22 (BLU)
ARC51-30A22 (RED)
AN/ARC-51BX
18
ARC51-3B20
ARC51-4B20
ARC51-5B20
ARC51-6B20
ARC51-7B20
ARC51-8B20
ARC51-9B20
ARC51-10B20
ARC51-11B20
ARC51-12B20
ARC51-13B20
ARC51-14B20
ARC51-15B20
ARC51-16B20
ARC51-17B20
ARC51-18B20
ARC51-19B20
ARC51-20B20
ARC51-21B20
ARC51-2B20
ARC51-22B20
ARC51-23B20
ARC51-24B20
ARC51-25B20
ARC51-29B22 (BLU)
ARC51-30B22 (RED)
AN/ARC-51BX RADIO SET CONTROL C-6287/AFC-51BX REF DESIG PREFIX 2A1

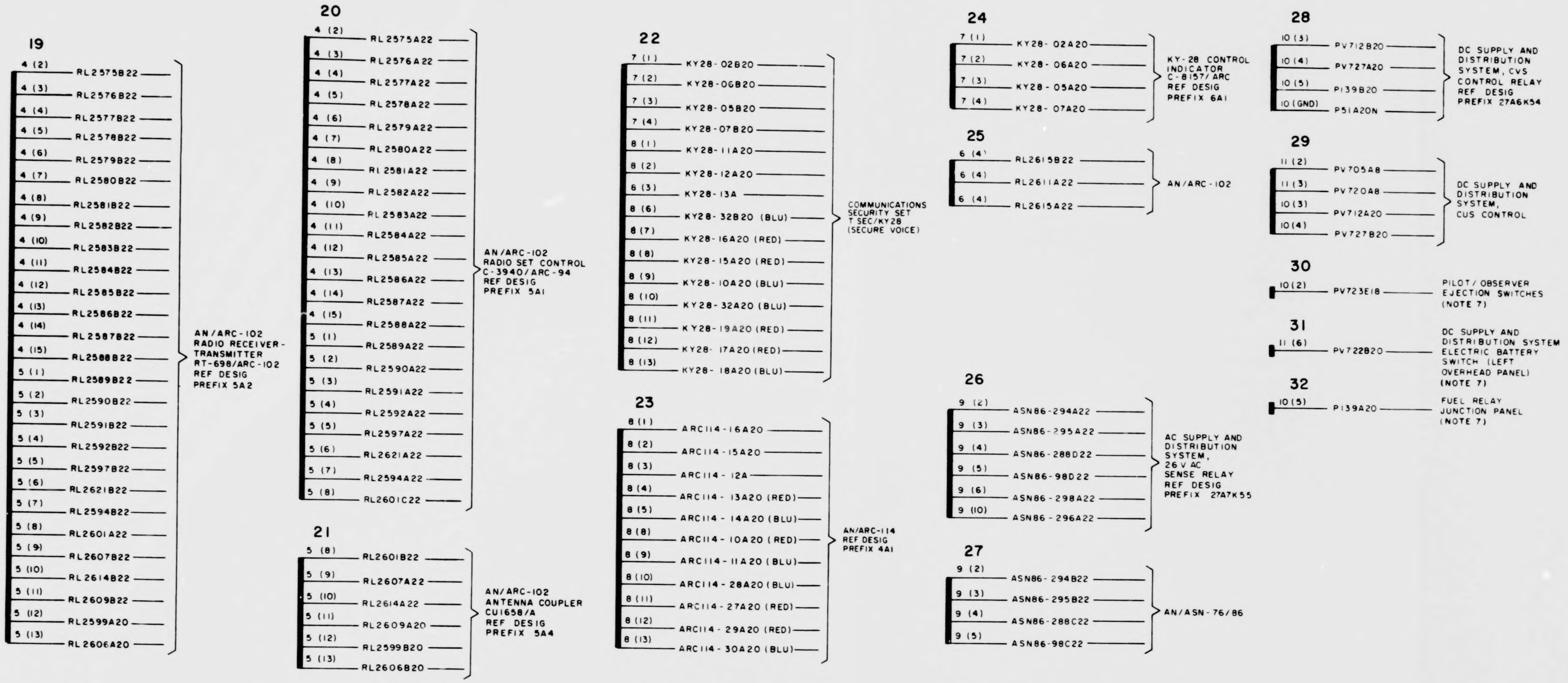
EL22T235

FO-27. Aft radio junction panel assembly (29A3) (sheet 2 of 3).


P/O AFT RADIO JUNCTION PANEL ASSEMBLY
PREFIX REF DESIG 29A3
THIS SHEET CONTAINS STATIONS 1 THRU 8
1
TB111
BRAID
APN171-6A20 (RED)
APN171-5A22
APN171-7A20 (BLU)
APN171-3A20
APN171-8A22
APN171-8B22
ASN86-128A22 (RED)
APN171-6B20 (RED)
APN171-5B22
ASN86-129A22 (BLU)
APN171-7B20 (BLU)
APN171-4A22
APN171-4B22
APN171-3B20
APN171-11A20
GRD-20
2
TB114
ARC51-3A20
ARC51-17A20
ARC51-3B20
ARC51-17B20
3
TB115
ARC51-18A20
ARC51-29A22 (BLU)
ARC51-30A22 (RED)
ARC51-18B20
ARC51-29B22 (BLU)
ARC51 30B22 (RED)
4
TB117
RL2575B22
RL2588B22
RL2575A22
RL2588A22
5
TB118
RL2589B22
RL2606A20
RL2589A22
RL2606B20
6
TB119
RL2611A22
RL2610A22
RL2615B22
7
TB120
KY28-02B20
KY28-07B20
KY28-02A20
KY28-07A20
8
TB121
KY28-11A20
KY28-13B22 (WHT)
ARC114-12B22 (WHT)
ARC114-16A20
ARC114-12A
T5
P

FO-27. Aft radio junction panel assembly (29A3) (sheet 1 of 3)

THIS SHEET CONTAINS
STATIONS 19 THRU 32


19
4 (2) RL2575B22
4 (3) RL2576B22
4 (4) RL2577B22
4 (5) RL2578B22
4 (6) RL2579B22
4 (7) RL2580B22
4 (8) RL2581B22
4 (9) RL2582B22
4 (10) RL2583B22
4 (11) RL2584B22
4 (12) RL2585B22
4 (13) RL2586B22
4 (14) RL2587B22
4 (15) RL2588B22
5 (1) RL2589B22
5 (2) RL2590B22
5 (3) RL2591B22
5 (4) RL2592B22
5 (5) RL2597B22
5 (6) RL2621B22
5 (7) RL2594B22
5 (8) RL2601A22
5 (9) RL2607B22
5 (10) RL2614B22
5 (11) RL2609B22
5 (12) RL2599A20
5 (13) RL2606A20
AN/ARC-102 RADIO RECEIVER-TRANSMITTER RT-698/ARC-102 REF DESIG PREFIX 5A2
20
4 (2) RL2575A22
4 (3) RL2576A22
4 (4) RL2577A22
4 (5) RL2578A22
4 (6) RL2579A22
4 (7) RL2580A22
4 (8) RL2581A22
4 (9) RL2582A22
4 (10) RL2583A22
4 (11) RL2584A22
4 (12) RL2585A22
4 (13) RL2586A22
4 (14) RL2587A22
4 (15) RL2588A22
5 (1) RL2589A22
5 (2) RL2590A22
5 (3) RL2591A22
5 (4) RL2592A22
5 (5) RL2597A22
5 (6) RL2621A22
5 (7) RL2594A22
5 (8) RL2601C22
AN/ARC-102 RADIO SET CONTROL C-3940/ARC-94 REF DESIG PREFIX 5A1
21
5 (8) RL2601B22
5 (9) RL2607A22
5 (10) RL2614A22
5 (11) RL2609A20
5 (12) RL2599B20
5 (13) RL2606B20
AN/ARC-102 ANTENNA COUPLER CU1658/A REF DESIG PREFIX 5A4
22
7 (1) KY28-02B20
7 (2) KY28-06B20
7 (3) KY28-05B20
7 (4) KY28-07B20
8 (1) KY28-11A20
8 (2) KY28-12A20
8 (3) KY28-13A
8 (6) KY28-32B20 (BLU)
8 (7) KY28-16A20 (RED)
8 (8) KY28-15A20 (RED)
8 (9) KY28-10A20 (BLU)
8 (10) KY28-32A20 (BLU)
8 (11) KY28-19A20 (RED)
8 (12) KY28-17A20 (RED)
8 (13) KY28-18A20 (BLU)
COMMUNICATIONS SECURITY SET T SEC/KY28 (SECURE VOICE)
23
8 (1) ARC114-16A20
8 (2) ARC114-15A20
8 (3) ARC114-12A
8 (4) ARC114-13A20 (RED)
8 (5) ARC114-14A20 (BLU)
8 (8) ARC114-10A20 (RED)
8 (9) ARC114-11A20 (BLU)
8 (10) ARC114-28A20 (BLU)
8 (11) ARC114-27A20 (RED)
8 (12) ARC114-29A20 (RED)
8 (13) ARC114-30A20 (BLU)
AN/ARC-114 REF DESIG PREFIX 4A1
24
7 (1) KY28-02A20
7 (2) KY28-06A20
7 (3) KY28-05A20
7 (4) KY28-07A20
KY-28 CONTROL INDICATOR C-8157/ARC REF DESIG PREFIX 6A1
25
6 (4) RL2615B22
6 (4) RL2611A22
6 (4) RL2615A22
AN/ARC-102
26
9 (2) ASN86-294A22
9 (3) ASN86-295A22
9 (4) ASN86-288D22
9 (5) ASN86-98D22
9 (6) ASN86-298A22
9 (10) ASN86-296A22
AC SUPPLY AND DISTRIBUTION SYSTEM, 26 V AC SENSE RELAY REF DESIG PREFIX 27A7K55
27
9 (2) ASN86-294B22
9 (3) ASN86-295B22
9 (4) ASN86-288C22
9 (5) ASN86-98C22
AN/ASN-76/86
28
10 (3) PV712B20
10 (4) PV727A20
10 (5) P139B20
10 (GND) P51A20N
DC SUPPLY AND DISTRIBUTION SYSTEM, CVS CONTROL RELAY REF DESIG PREFIX 27A6K54
29
11 (2) PV705A8
11 (3) PV720A8
10 (3) PV712A20
10 (4) PV727B20
DC SUPPLY AND DISTRIBUTION SYSTEM, CUS CONTROL
30
10 (2) PV723E18
PILOT/OBSERVER EJECTION SWITCHES (NOTE 7)
31
11 (6) PV722B20
DC SUPPLY AND DISTRIBUTION SYSTEM ELECTRIC BATTERY SWITCH (LEFT OVERHEAD PANEL) (NOTE 7)
32
10 (5) P139A20
FUEL RELAY JUNCTION PANEL (NOTE 7)

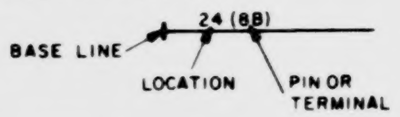
NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

KY28 16 C 22 N

FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:


24 (8B)
BASE LINE
LOCATION
PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4. ▭ INDICATES EQUIPMENT MARKINGS.

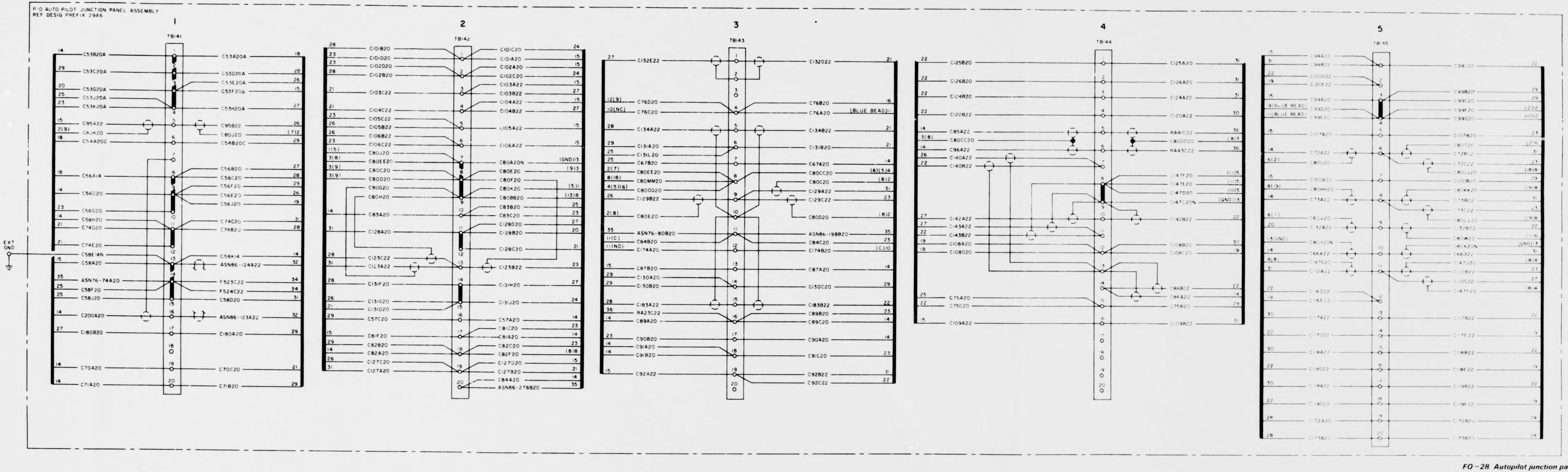
5. INDICATES MECHANICAL CONNECTION TO SHIELD.

6. INDICATES SPLICE OF SINGLE WIRE TO COAXIAL CABLE.

7. FOR ADDITIONAL WIRING INFORMATION REFER TO TM11-1510-213-20.

EL22T236

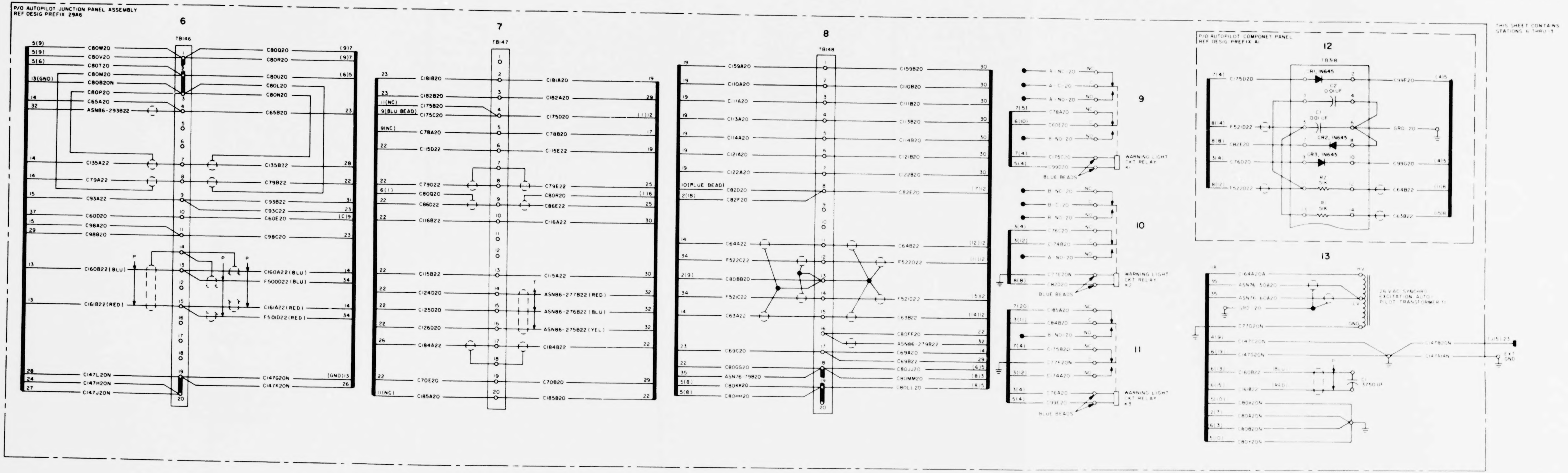
FO-27. Aft radio junction panel assembly (29A3) (sheet 3 of 3).


P/O AUTO PILOT JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A6
1
TB141
2
TB142
3
TB143
4
TB144
5
TB145
EXT GND

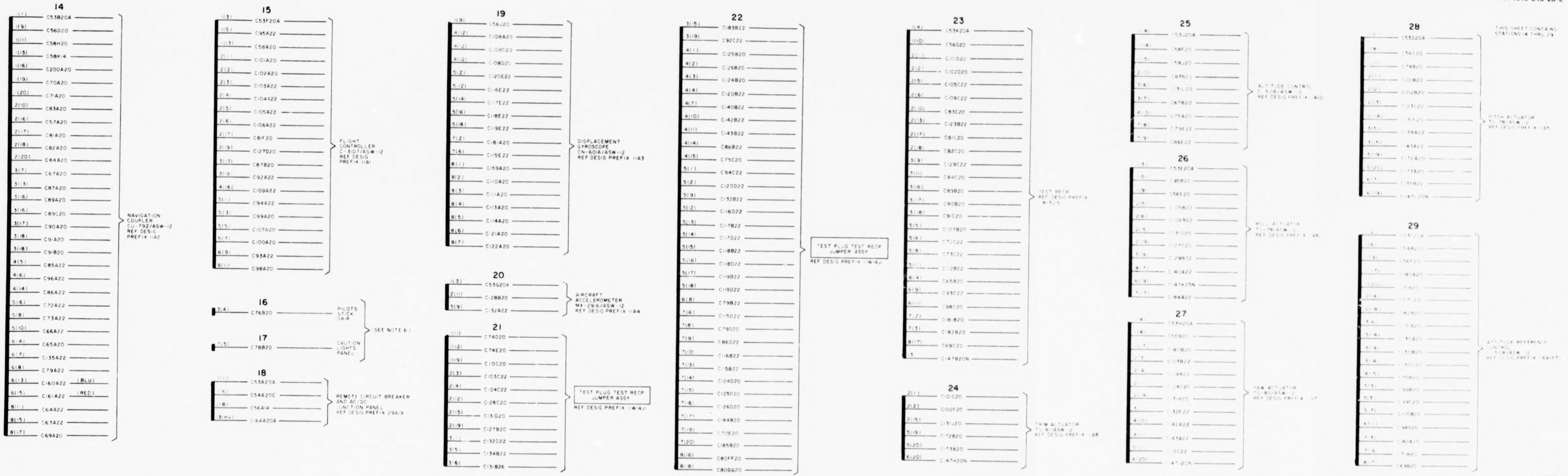
THIS SHEET CONTAINS STATIONS 1 THRU 5

FO-28. Autopilot junction panel assembly (29A6) wiring diagram (sheet 1 of 4).

EL2Z7257

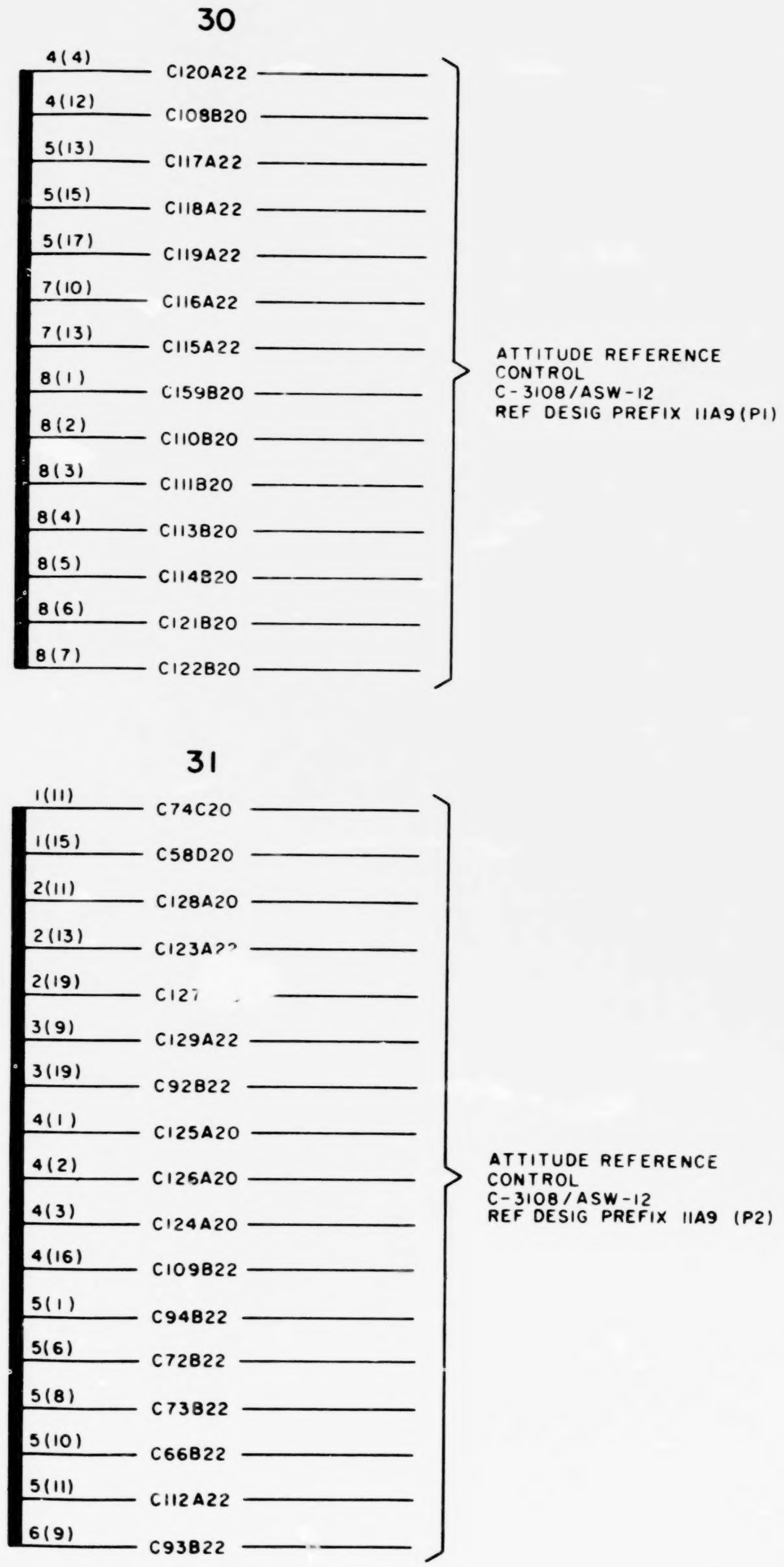

P/O AUTOPILOT JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A6
THIS SHEET CONTAINS STATIONS 6 THRU 13
6
TB146
C80W20
C80V20
C80T20
C80M20
C80B20N
C80P20
C65A20
ASN86-293B22
C80Q20
C80R20
C80U20
C80L20
C80N20
C65B20
C135A22
C135B22
C79A22
C79B22
C93A22
C93B22
C93C22
C60D20
C60E20
C98A20
C98B20
C98C20
C160B22 (BLU)
C160A22 (BLU)
F500D22 (BLU)
C161B22 (RED)
C161A22 (RED)
F501D22 (RED)
C147L20N
C147H20N
C147J20N
C147G20N
C147K20N
(GND)13
7
TB147
C181B20
C181A20
C182B20
C182A20
C175B20
C175C20
C175D20
C78A20
C78B20
C115D22
C115E22
C79D22
C79E22
C80Q20
C80R20
C86D22
C86E22
C116B22
C116A22
C115B22
C115A22
C124D20
ASN86-277B22 (RED)
C125D20
ASN86-276B22 (BLU)
C126D20
ASN86-275B22 (YEL)
C184A22
C184B22
C70E20
C70B20
C185A20
C185B20
9 (BLU BEAD)
8
TB148
C159A20
C159B20
C110A20
C110B20
C111A20
C111B20
C113A20
C113B20
C114A20
C114B20
C121A20
C121B20
C122A20
C122B20
10 (PLUE BEAD)
C82D20
C82E20
C82F20
C64A22
C64B22
F522C22
F522D22
C80BB20
F521C22
F521D22
C63A22
C63B22
C80FF20
ASN86-279B22
C69C20
C69A20
C69B22
C80GG20
C80JJ20
ASN76-79B20
C80MM20
C80KK20
C80HH20
C80LL20
9
10
11
WARNING LIGHT CKT RELAY K1
WARNING LIGHT CKT RELAY K2
WARNING LIGHT CKT RELAY K3
BLUE BEADS
P/O AUTOPILOT COMPONET PANEL
REF DESIG PREFIX A1
12
TB318
CR1, IN645
C2 0.01UF
C1 0.01UF
CR2, IN645
CR3, IN645
R2 51K
R1 51K
C175D20
C99F20
F521D22
C82E20
C76D20
C99G20
F522D22
C64B22
C63B22
GRD-20
13
C64A20A
ASN76-50A20
ASN76-60A20
GRD-20
C77D20N
C147C20N
C147G20N
C147B20N
C147A14N
26 V AC SYNCHRO EXCITATION (AUTOPILOT TRANSFORMER T1)
HV
GND
C60B22
C61B22
BLU
RED
C1 3750 UF
C80X20N
C80A20N
C80B20N
C80Y20N
EXT GND

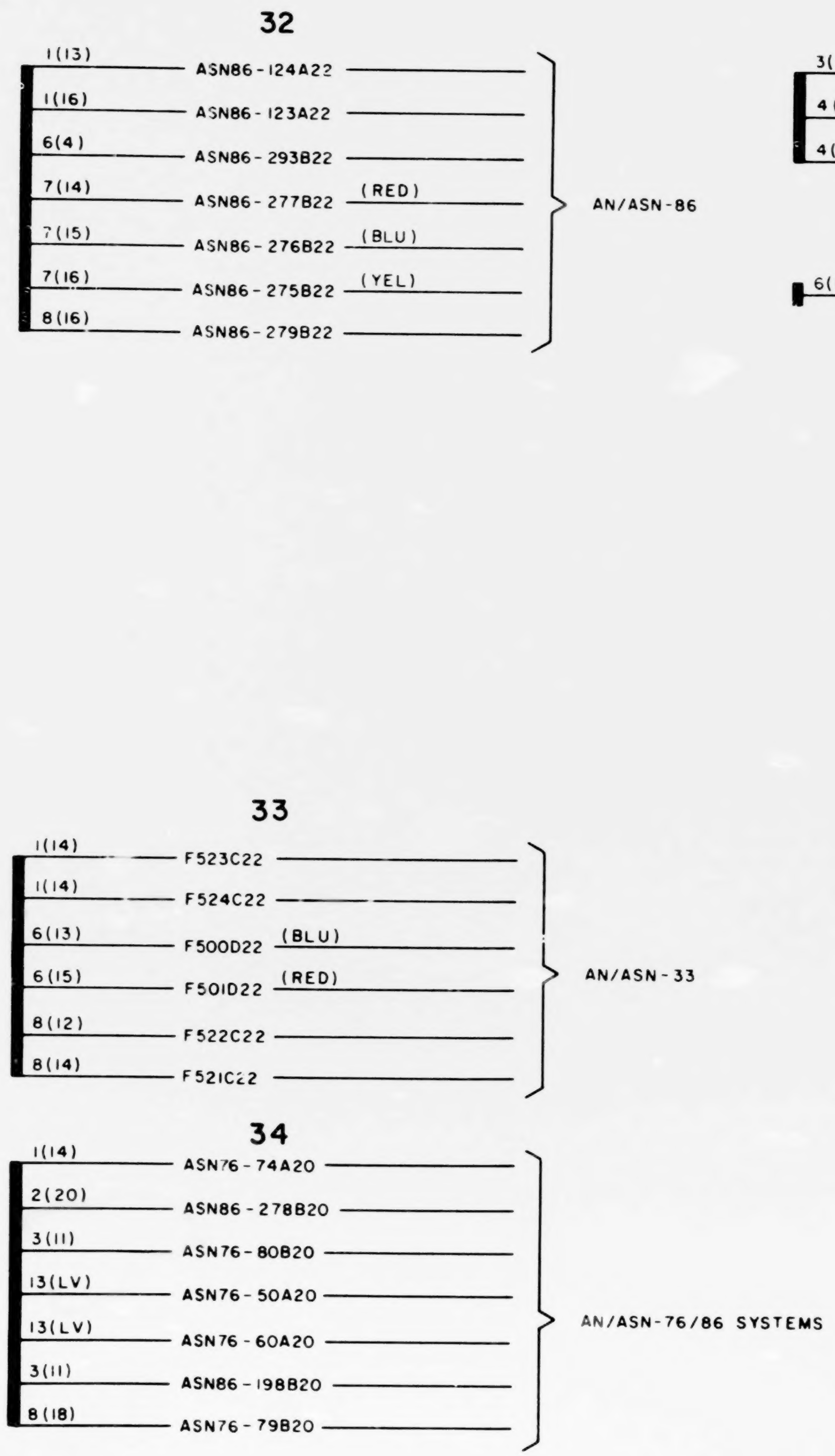
FO-28. Autopilot junction panel assembly (29A6) wiring diagram (sheet 2 of 4).

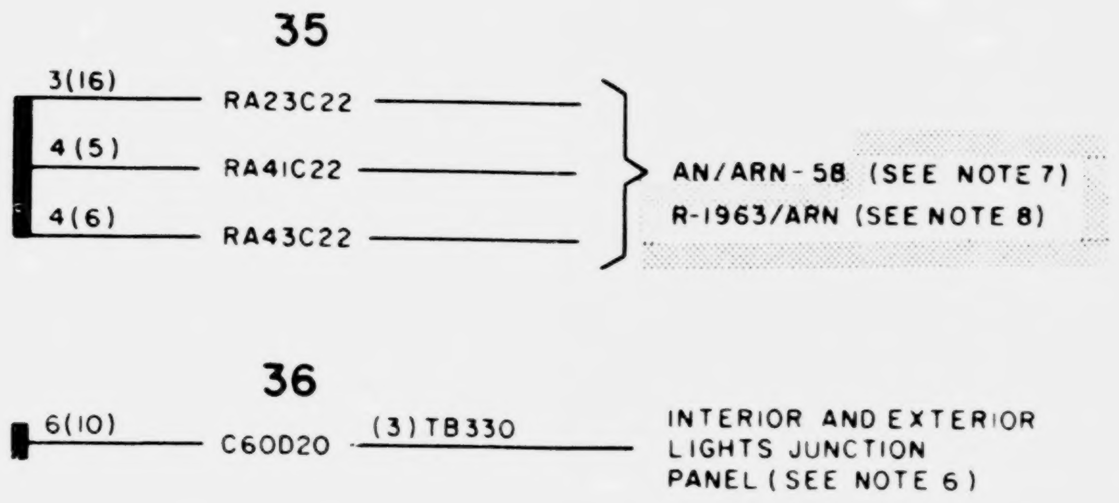

14
NAVIGATION COUPLER CU-792/ASW-12 REF DESIG PREFIX 11A2
(BLU)
(RED)
15
FLIGHT CONTROLLER C-3107/ASW-12 REF DESIG PREFIX 11A1
16
PILOTS STICK GRIP
17
CAUTION LIGHTS PANEL
SEE NOTE 6
18
REMOTE CIRCUIT BREAKER AND AC/DC JUNCTION PANEL REF DESIG PREFIX 29A19
19
DISPLACEMENT GYROSCOPE CN-601A/ASW-12 REF DESIG PREFIX 11A3
20
AIRCRAFT ACCELEROMETER MX-2916/ASW-12 REF DESIG PREFIX 11A4
21
TEST PLUG TEST RECP JUMPER ASSY
REF DESIG PREFIX 11W4J1
22
TEST PLUG TEST RECP JUMPER ASSY
REF DESIG PREFIX 11W4J1
23
TEST RECP REF DESIG PREFIX 11J5
24
TRIM ACTUATOR TS-181/ASW-12 REF DESIG PREFIX 11A8
25
ALTITUDE CONTROL C-3106/ASW-12 REF DESIG PREFIX 11A10
26
ROLL ACTUATOR TS-78/ASW-12 REF DESIG PREFIX 11A6
27
YAW ACTUATOR TS-180/ASW-12 REF DESIG PREFIX 11A7
28
PITCH ACTUATOR TS-78/ASW-12 REF DESIG PREFIX 11A5
THIS SHEET CONTAINS STATIONS 14 THRU 29
29
ATTITUDE REFERENCE CONTROL C-3108/ASW-12 REF DESIG PREFIX 11A9(P3)
EL2271239

FO-28. Autopilot junction panel assembly (29A6) wiring diagram (sheet 3 of 4)

THIS SHEET CONTAINS
STATIONS 30 THRU 36

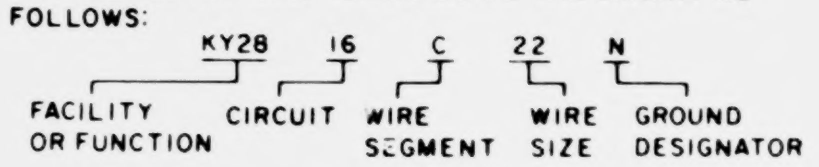

30
4(4) C120A22
4(12) C108B20
5(13) C117A22
5(15) C118A22
5(17) C119A22
7(10) C116A22
7(13) C115A22
8(1) C159B20
8(2) C110B20
8(3) C111B20
8(4) C113B20
8(5) C114B20
8(6) C121B20
8(7) C122B20
ATTITUDE REFERENCE
CONTROL
C-3108/ASW-12
REF DESIG PREFIX 11A9(P1)
31
1(11) C74C20
1(15) C58D20
2(11) C128A20
2(13) C123A22
2(19) C127
3(9) C129A22
3(19) C92B22
4(1) C125A20
4(2) C126A20
4(3) C124A20
4(16) C109B22
5(1) C94B22
5(6) C72B22
5(8) C73B22
5(10) C66B22
5(11) C112A22
6(9) C93B22
ATTITUDE REFERENCE
CONTROL
C-3108/ASW-12
REF DESIG PREFIX 11A9 (P2)


32
1(13) ASN86-124A22
1(16) ASN86-123A22
6(4) ASN86-293B22
7(14) ASN86-277B22 (RED)
7(15) ASN86-276B22 (BLU)
7(16) ASN86-275B22 (YEL)
8(16) ASN86-279B22
AN/ASN-86
33
1(14) F523C22
1(14) F524C22
6(13) F500D22 (BLU)
6(15) F501D22 (RED)
8(12) F522C22
8(14) F521C22
AN/ASN-33
34
1(14) ASN76-74A20
2(20) ASN86-278B20
3(11) ASN76-80B20
13(LV) ASN76-50A20
13(LV) ASN76-60A20
3(11) ASN86-198B20
8(18) ASN76-79B20
AN/ASN-76/86 SYSTEMS

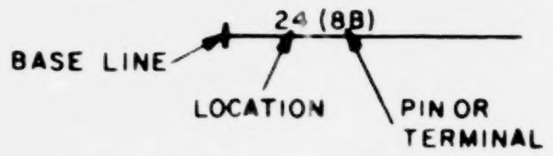

35
3(16) RA23C22
4(5) RA41C22
4(6) RA43C22
AN/ARN-58 (SEE NOTE 7)
R-1963/ARN (SEE NOTE 8)
36
6(10) C60D20 (3) TB330
INTERIOR AND EXTERIOR
LIGHTS JUNCTION
PANEL (SEE NOTE 6)

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:


KY28
16
C
22
N
FACILITY OR FUNCTION
CIRCUIT
WIRE SEGMENT
WIRE SIZE
GROUND DESIGNATOR

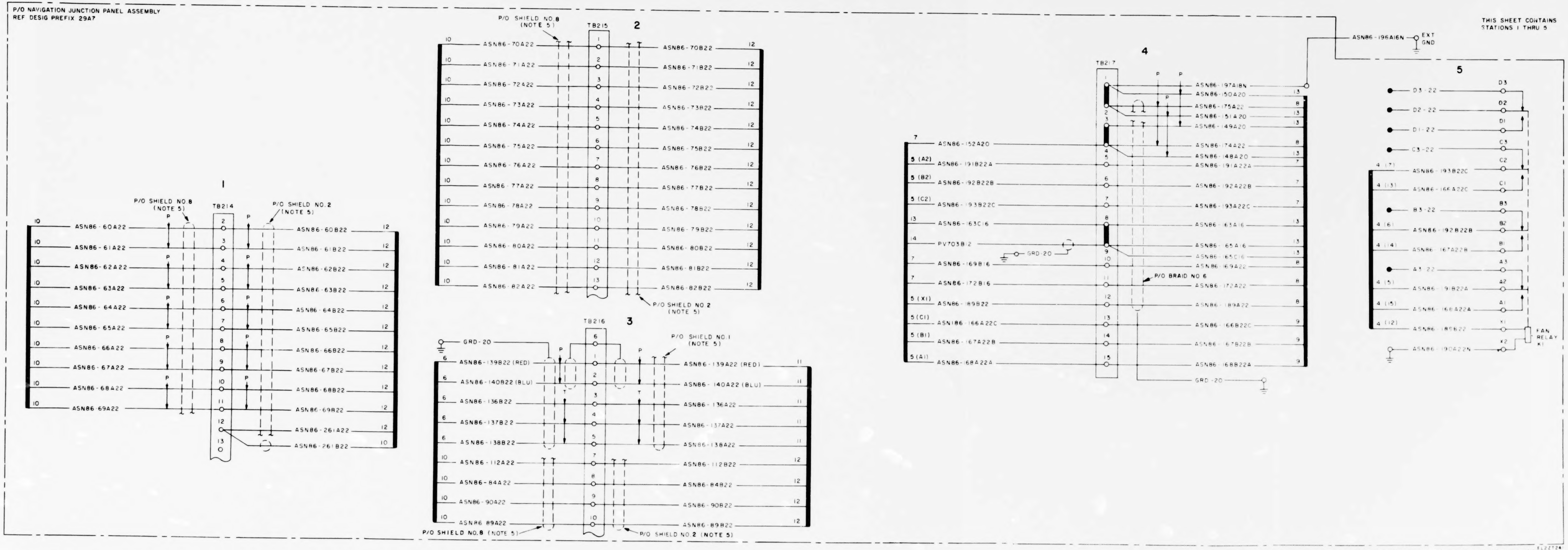
2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:


24 (8B)
BASE LINE
LOCATION
PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. ↔ INDICATES MECHANICAL CONNECTION TO SHIELD.
6. FOR ADDITIONAL WIRING INFORMATION REFER TO TM55-1510-204-20/1.
7. APPLIES BEFORE INCORPORATION OF MWO55-1510-213-50-1
8. APPLIES AFTER INCORPORATION OF MWO55-1510-213-50-1

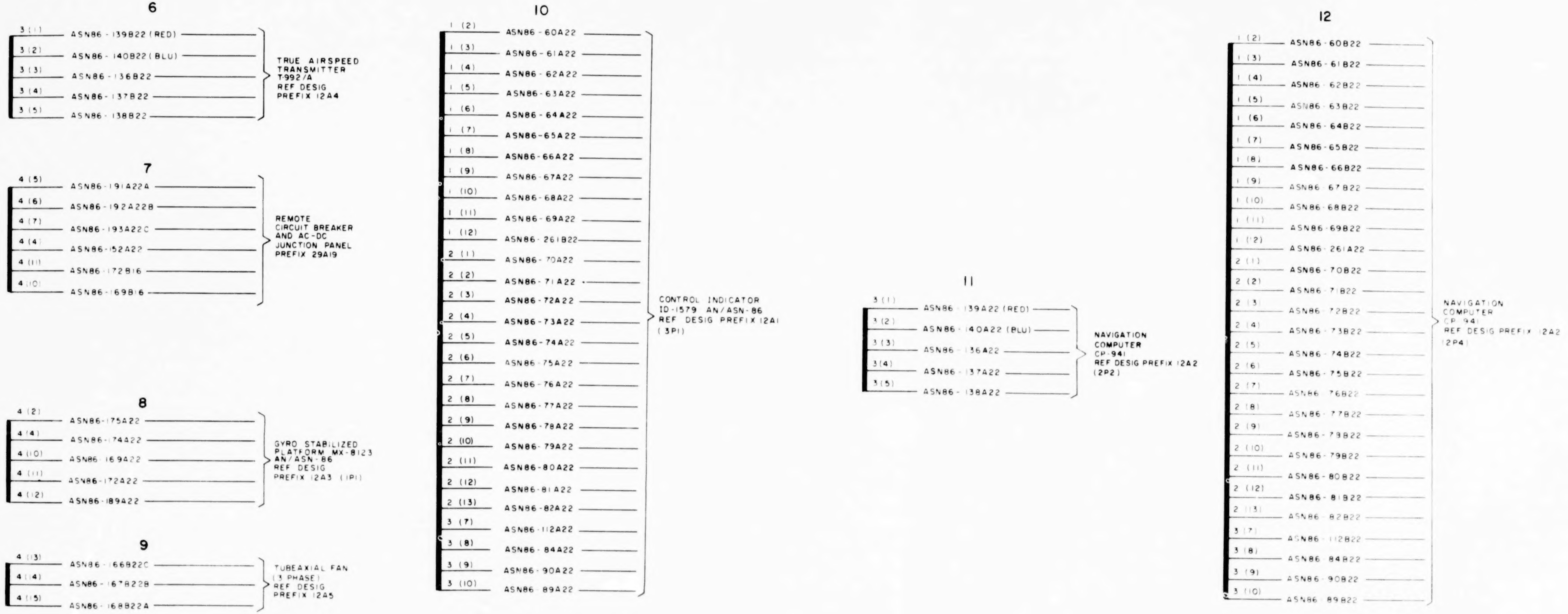
EL2ZT240

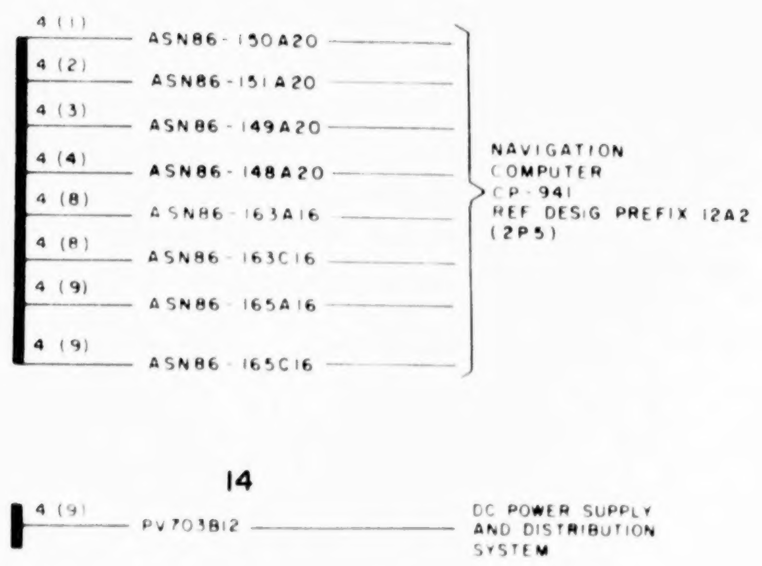
FO–28. Autopilot junction panel assembly (29A6) wiring diagram (sheet 4 of 4).


P/O NAVIGATION JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A7
THIS SHEET CONTAINS STATIONS 1 THRU 5
1
TB214
P/O SHIELD NO.8 (NOTE 5)
P/O SHIELD NO.2 (NOTE 5)
ASN86-60A22
ASN86-61A22
ASN86-62A22
ASN86-63A22
ASN86-64A22
ASN86-65A22
ASN86-66A22
ASN86-67A22
ASN86-68A22
ASN86-69A22
ASN86-60B22
ASN86-61B22
ASN86-62B22
ASN86-63B22
ASN86-64B22
ASN86-65B22
ASN86-66B22
ASN86-67B22
ASN86-68B22
ASN86-69B22
ASN86-261A22
ASN86-261B22
2
TB215
P/O SHIELD NO.8 (NOTE 5)
P/O SHIELD NO.2 (NOTE 5)
ASN86-70A22
ASN86-71A22
ASN86-72A22
ASN86-73A22
ASN86-74A22
ASN86-75A22
ASN86-76A22
ASN86-77A22
ASN86-78A22
ASN86-79A22
ASN86-80A22
ASN86-81A22
ASN86-82A22
ASN86-70B22
ASN86-71B22
ASN86-72B22
ASN86-73B22
ASN86-74B22
ASN86-75B22
ASN86-76B22
ASN86-77B22
ASN86-78B22
ASN86-79B22
ASN86-80B22
ASN86-81B22
ASN86-82B22
3
TB216
GRD-20
P/O SHIELD NO.1 (NOTE 5)
ASN86-139B22 (RED)
ASN86-140B22 (BLU)
ASN86-136B22
ASN86-137B22
ASN86-138B22
ASN86-112A22
ASN86-84A22
ASN86-90A22
ASN86-89A22
ASN86-139A22 (RED)
ASN86-140A22 (BLU)
ASN86-136A22
ASN86-137A22
ASN86-138A22
ASN86-112B22
ASN86-84B22
ASN86-90B22
ASN86-89B22
P/O SHIELD NO.8 (NOTE 5)
P/O SHIELD NO.2 (NOTE 5)
4
TB217
ASN86-152A20
ASN86-191B22A
ASN86-192B22B
ASN86-193B22C
ASN86-63C16
PV703B-2
GRD-20
ASN86-169B16
ASN86-172B16
ASN86-189B22
ASN186-166A22C
ASN86-167A22B
ASN86-168A22A
5 (A2)
5 (B2)
5 (C2)
5 (X1)
5 (C1)
5 (B1)
5 (A1)
ASN86-197A18N
ASN86-150A20
ASN86-175A22
ASN86-151A20
ASN86-149A20
ASN86-174A22
ASN86-148A20
ASN86-191A22A
ASN86-192A22B
ASN86-193A22C
ASN86-63A16
ASN86-65A16
ASN86-65C16
ASN86-69A22
ASN86-172A22
ASN86-189A22
ASN86-166B22C
ASN86-167B22B
ASN86-168B22A
GRD-20
P/O BRAID NO 6
ASN86-196A16N
EXT GND
5
D3-22
D2-22
D1-22
C3-22
ASN86-193B22C
ASN86-166A22C
B3-22
ASN86-192B22B
ASN86-167A22B
A3-22
ASN86-191B22A
ASN86-168A22A
ASN86-185B22
ASN86-190A22N
D3
D2
D1
C3
C2
C1
B3
B2
B1
A3
A2
A1
X1
X2
4 (7)
4 (13)
4 (6)
4 (14)
4 (5)
4 (15)
4 (12)
FAN RELAY K1

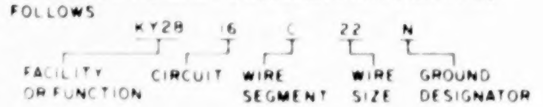
FO-29 Navigation junction panel assembly (29A7) wiring diagram (sheet 1 of 2)

THIS SHEET CONTAINS
STATIONS 6 THRU 14

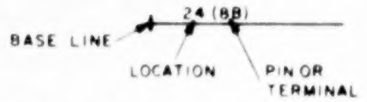

6
3 (1) ASN86-139B22 (RED)
3 (2) ASN86-140B22 (BLU)
3 (3) ASN86-136B22
3 (4) ASN86-137B22
3 (5) ASN86-138B22
TRUE AIRSPEED TRANSMITTER T-992/A REF DESIG PREFIX 12A4
7
4 (5) ASN86-191A22A
4 (6) ASN86-192A22B
4 (7) ASN86-193A22C
4 (4) ASN86-152A22
4 (11) ASN86-172B16
4 (10) ASN86-169B16
REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL PREFIX 29A19
8
4 (2) ASN86-175A22
4 (4) ASN86-174A22
4 (10) ASN86-169A22
4 (11) ASN86-172A22
4 (12) ASN86-189A22
GYRO STABILIZED PLATFORM MX-8123 AN/ASN-86 REF DESIG PREFIX 12A3 (1P1)
9
4 (13) ASN86-166B22C
4 (14) ASN86-167B22B
4 (15) ASN86-168B22A
TUBEAXIAL FAN (3 PHASE) REF DESIG PREFIX 12A5
10
1 (2) ASN86-60A22
1 (3) ASN86-61A22
1 (4) ASN86-62A22
1 (5) ASN86-63A22
1 (6) ASN86-64A22
1 (7) ASN86-65A22
1 (8) ASN86-66A22
1 (9) ASN86-67A22
1 (10) ASN86-68A22
1 (11) ASN86-69A22
1 (12) ASN86-261B22
2 (1) ASN86-70A22
2 (2) ASN86-71A22
2 (3) ASN86-72A22
2 (4) ASN86-73A22
2 (5) ASN86-74A22
2 (6) ASN86-75A22
2 (7) ASN86-76A22
2 (8) ASN86-77A22
2 (9) ASN86-78A22
2 (10) ASN86-79A22
2 (11) ASN86-80A22
2 (12) ASN86-81A22
2 (13) ASN86-82A22
3 (7) ASN86-112A22
3 (8) ASN86-84A22
3 (9) ASN86-90A22
3 (10) ASN86-89A22
CONTROL INDICATOR ID-1579 AN/ASN-86 REF DESIG PREFIX 12A1 (3P1)
11
3 (1) ASN86-139A22 (RED)
3 (2) ASN86-140A22 (BLU)
3 (3) ASN86-136A22
3 (4) ASN86-137A22
3 (5) ASN86-138A22
NAVIGATION COMPUTER CP-941 REF DESIG PREFIX 12A2 (2P2)
12
1 (2) ASN86-60B22
1 (3) ASN86-61B22
1 (4) ASN86-62B22
1 (5) ASN86-63B22
1 (6) ASN86-64B22
1 (7) ASN86-65B22
1 (8) ASN86-66B22
1 (9) ASN86-67B22
1 (10) ASN86-68B22
1 (11) ASN86-69B22
1 (12) ASN86-261A22
2 (1) ASN86-70B22
2 (2) ASN86-71B22
2 (3) ASN86-72B22
2 (4) ASN86-73B22
2 (5) ASN86-74B22
2 (6) ASN86-75B22
2 (7) ASN86-76B22
2 (8) ASN86-77B22
2 (9) ASN86-78B22
2 (10) ASN86-79B22
2 (11) ASN86-80B22
2 (12) ASN86-81B22
2 (13) ASN86-82B22
3 (7) ASN86-112B22
3 (8) ASN86-84B22
3 (9) ASN86-90B22
3 (10) ASN86-89B22
NAVIGATION COMPUTER CP-941 REF DESIG PREFIX 12A2 (2P4)


13
4 (1) ASN86-150A20
4 (2) ASN86-151A20
4 (3) ASN86-149A20
4 (4) ASN86-148A20
4 (8) ASN86-163A16
4 (8) ASN86-163C16
4 (9) ASN86-165A16
4 (9) ASN86-165C16
NAVIGATION COMPUTER CP-941 REF DESIG PREFIX 12A2 (2P5)
14
4 (9) PV703B12
DC POWER SUPPLY AND DISTRIBUTION SYSTEM

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS


KY28
16
C
22
N
FACILITY OR FUNCTION
CIRCUIT
WIRE SEGMENT
WIRE SIZE
GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS


24 (8B)
BASE LINE
LOCATION
PIN OR TERMINAL

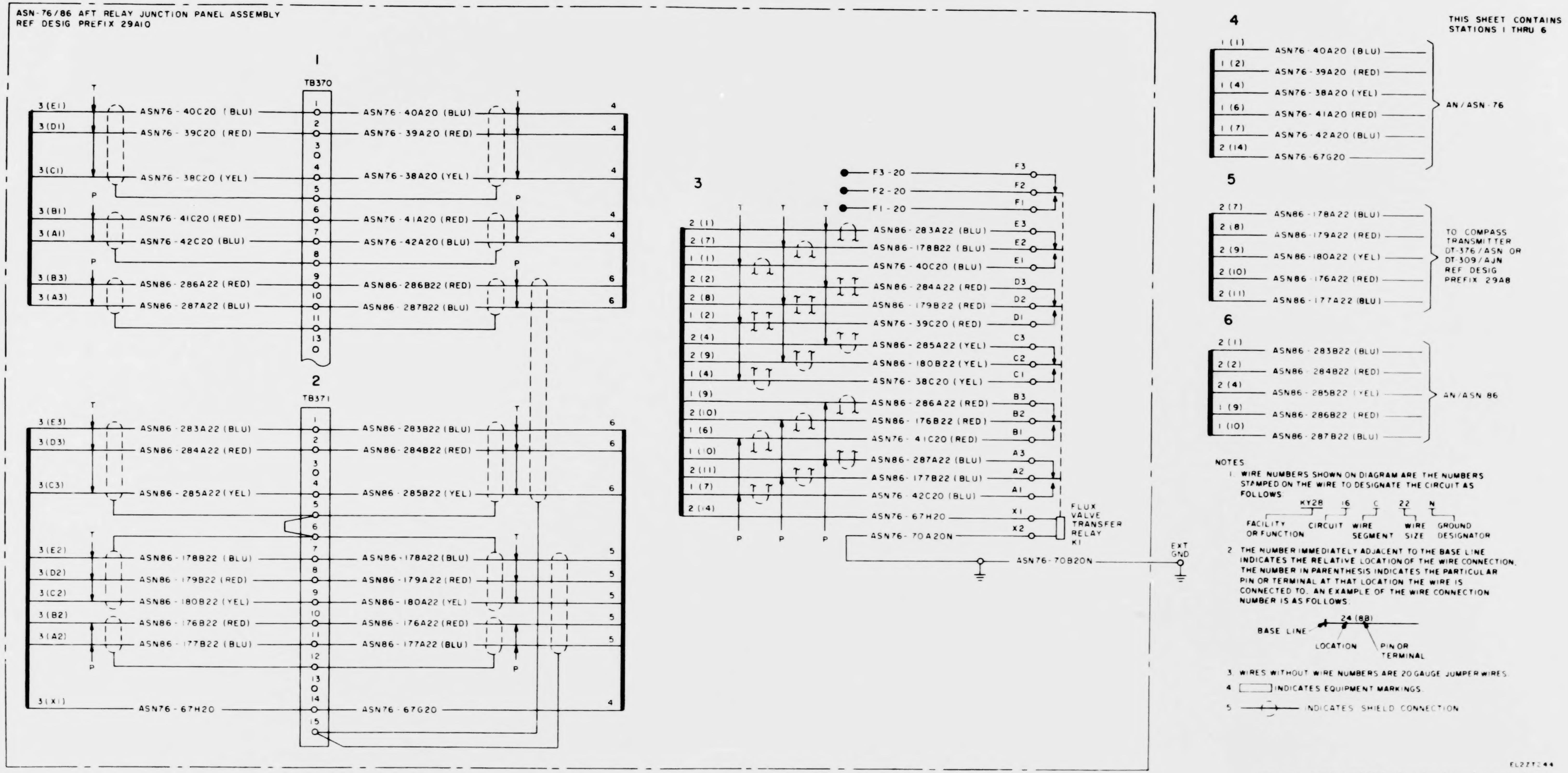
3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4. ▭ INDICATES EQUIPMENT MARKINGS.

5. BRAID NUMBERS ARE ARBITRARILY ASSIGNED. THEY SHOW A COMPLETE BRAID WHEN A BRAID APPEARS AT TWO OR MORE LOCATIONS ON A DRAWING.

EL2ZT242

FO-29. Navigation junction panel assembly (29A7) wiring diagram (sheet 2 of 2).


ASN-76/86 AFT RELAY JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A10
1
TB370
3 (E1) ASN76-40C20 (BLU) 1 ASN76-40A20 (BLU) 4
3 (D1) ASN76-39C20 (RED) 2 ASN76-39A20 (RED) 4
3 (C1) ASN76-38C20 (YEL) 4 ASN76-38A20 (YEL) 4
3 (B1) ASN76-41C20 (RED) 6 ASN76-41A20 (RED) 4
3 (A1) ASN76-42C20 (BLU) 7 ASN76-42A20 (BLU) 4
3 (B3) ASN86-286A22 (RED) 9 ASN86-286B22 (RED) 6
3 (A3) ASN86-287A22 (BLU) 10 ASN86-287B22 (BLU) 6
T
P
2
TB371
3 (E3) ASN86-283A22 (BLU) 1 ASN86-283B22 (BLU) 6
3 (D3) ASN86-284A22 (RED) 2 ASN86-284B22 (RED) 6
3 (C3) ASN86-285A22 (YEL) 4 ASN86-285B22 (YEL) 6
3 (E2) ASN86-178B22 (BLU) 7 ASN86-178A22 (BLU) 5
3 (D2) ASN86-179B22 (RED) 8 ASN86-179A22 (RED) 5
3 (C2) ASN86-180B22 (YEL) 9 ASN86-180A22 (YEL) 5
3 (B2) ASN86-176B22 (RED) 10 ASN86-176A22 (RED) 5
3 (A2) ASN86-177B22 (BLU) 11 ASN86-177A22 (BLU) 5
3 (X1) ASN76-67H20 14 ASN76-67G20 4
3
F3-20 F3
F2-20 F2
F1-20 F1
2 (1) ASN86-283A22 (BLU) E3
2 (7) ASN86-178B22 (BLU) E2
1 (1) ASN76-40C20 (BLU) E1
2 (2) ASN86-284A22 (RED) D3
2 (8) ASN86-179B22 (RED) D2
1 (2) ASN76-39C20 (RED) D1
2 (4) ASN86-285A22 (YEL) C3
2 (9) ASN86-180B22 (YEL) C2
1 (4) ASN76-38C20 (YEL) C1
1 (9) ASN86-286A22 (RED) B3
2 (10) ASN86-176B22 (RED) B2
1 (6) ASN76-41C20 (RED) B1
1 (10) ASN86-287A22 (BLU) A3
2 (11) ASN86-177B22 (BLU) A2
1 (7) ASN76-42C20 (BLU) A1
2 (14) ASN76-67H20 X1
ASN76-70A20N X2
FLUX VALVE TRANSFER RELAY K1
ASN76-70B20N
EXT GND
4
1 (1) ASN76-40A20 (BLU)
1 (2) ASN76-39A20 (RED)
1 (4) ASN76-38A20 (YEL)
1 (6) ASN76-41A20 (RED)
1 (7) ASN76-42A20 (BLU)
2 (14) ASN76-67G20
AN/ASN-76
THIS SHEET CONTAINS STATIONS 1 THRU 6
5
2 (7) ASN86-178A22 (BLU)
2 (8) ASN86-179A22 (RED)
2 (9) ASN86-180A22 (YEL)
2 (10) ASN86-176A22 (RED)
2 (11) ASN86-177A22 (BLU)
TO COMPASS TRANSMITTER DT-376/ASN OR DT-309/AJN REF DESIG PREFIX 29A8
6
2 (1) ASN86-283B22 (BLU)
2 (2) ASN86-284B22 (RED)
2 (4) ASN86-285B22 (YEL)
1 (9) ASN86-286B22 (RED)
1 (10) ASN86-287B22 (BLU)
AN/ASN 86
KY28 16 C 22 N
FACILITY OR FUNCTION
CIRCUIT
WIRE SEGMENT
WIRE SIZE
GROUND DESIGNATOR
24 (8B)
BASE LINE
LOCATION
PIN OR TERMINAL
EL22T244

NOTES

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

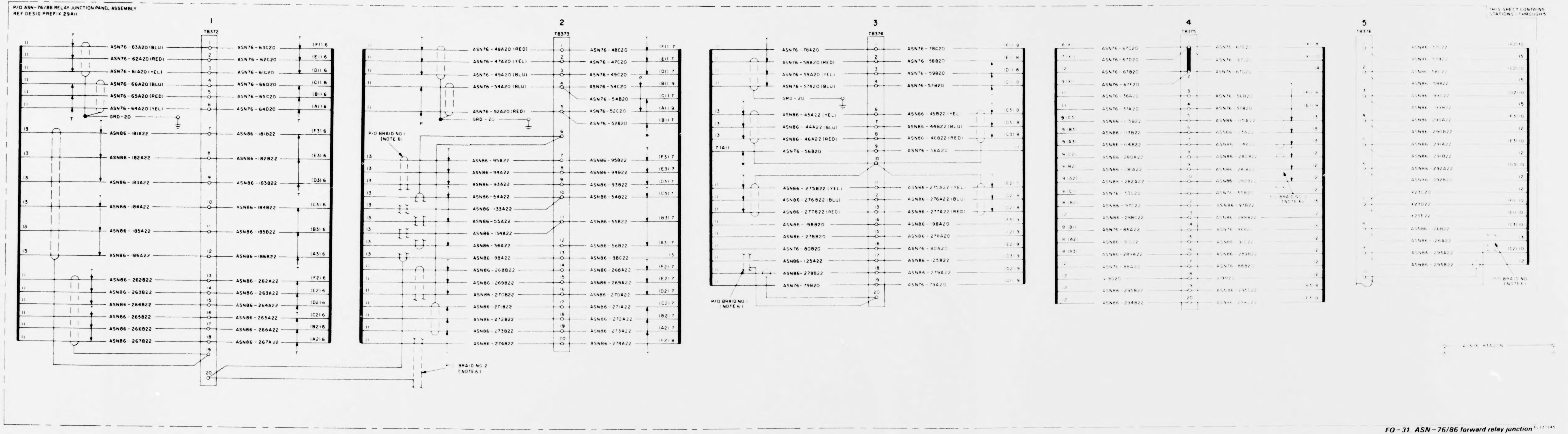
2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

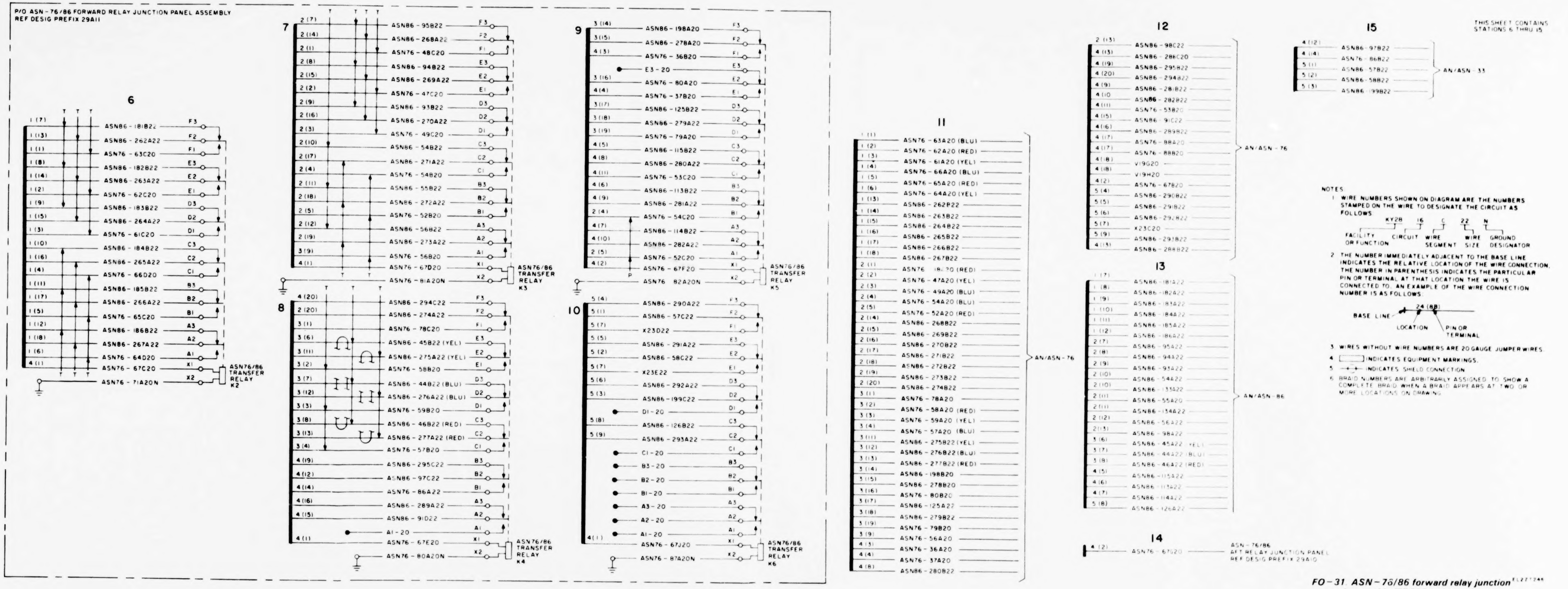
4. ▭ INDICATES EQUIPMENT MARKINGS.

5. —⌒— INDICATES SHIELD CONNECTION.

FO-30. ASN-76/86 aft relay junction panel assembly (29A10) wiring diagram.


P/O ASN-76/86 RELAY JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A11
THIS SHEET CONTAINS STATIONS 1 THROUGH 5
1
TB372
2
TB373
3
TB374
4
TB375
5
TB376
ASN76-63A20 (BLU)
ASN76-62A20 (RED)
ASN76-61A20 (YEL)
ASN76-66A20 (BLU)
ASN76-65A20 (RED)
ASN76-64A20 (YEL)
GRD-20
ASN86-181A22
ASN86-182A22
ASN86-183A22
ASN86-184A22
ASN86-185A22
ASN86-186A22
ASN86-262B22
ASN86-263B22
ASN86-264B22
ASN86-265B22
ASN86-266B22
ASN86-267B22
ASN76-63C20
ASN76-62C20
ASN76-61C20
ASN76-66D20
ASN76-65C20
ASN76-64D20
ASN86-181B22
ASN86-182B22
ASN86-183B22
ASN86-184B22
ASN86-185B22
ASN86-186B22
ASN86-262A22
ASN86-263A22
ASN86-264A22
ASN86-265A22
ASN86-266A22
ASN86-267A22
ASN76-48A20 (RED)
ASN76-47A20 (YEL)
ASN76-49A20 (BLU)
ASN76-54A20 (BLU)
ASN76-52A20 (RED)
GRD-20
ASN76-48C20
ASN76-47C20
ASN76-49C20
ASN76-54C20
ASN76-54B20
ASN76-52C20
ASN76-52B20
P/O BRAID NO 1 (NOTE 6)
P/O BRAID NO 2 (NOTE 6)
ASN76-78A20
ASN76-58A20 (RED)
ASN76-59A20 (YEL)
ASN76-57A20 (BLU)
GRD-20
ASN86-45A22 (YEL)
ASN86-44A22 (BLU)
ASN86-46A22 (RED)
ASN76-56B20
ASN86-275B22 (YEL)
ASN86-276B22 (BLU)
ASN86-277B22 (RED)
ASN76-78C20
ASN76-58B20
ASN76-59B20
ASN76-57B20
ASN86-45B22 (YEL)
ASN86-44B22 (BLU)
ASN86-46B22 (RED)
ASN76-56A20
ASN86-275A22 (YEL)
ASN86-276A22 (BLU)
ASN86-277A22 (RED)
P/O BRAID NO 1 (NOTE 6)
P/O BRAID NO 2 (NOTE 6)
P/O BRAID NO (NOTE 6)

FO-31 ASN-76/86 forward relay junction panel assembly (29A11) wiring diagram (sheet 1 of 2)


P/O ASN-76/86 FORWARD RELAY JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A11
THIS SHEET CONTAINS STATIONS 6 THRU 15
6
7
8
9
10
11
12
13
14
15
ASN76/86 TRANSFER RELAY K2
ASN76/86 TRANSFER RELAY K3
ASN76/86 TRANSFER RELAY K4
ASN76/86 TRANSFER RELAY K5
ASN76/86 TRANSFER RELAY K6
AN/ASN-76
AN/ASN-86
AN/ASN-33
ASN-76/86
AFT RELAY JUNCTION PANEL
REF DESIG PREFIX 29A10

NOTES

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS

KY28
16
C
22
N
FACILITY OR FUNCTION
CIRCUIT
WIRE SEGMENT
WIRE SIZE
GROUND DESIGNATOR

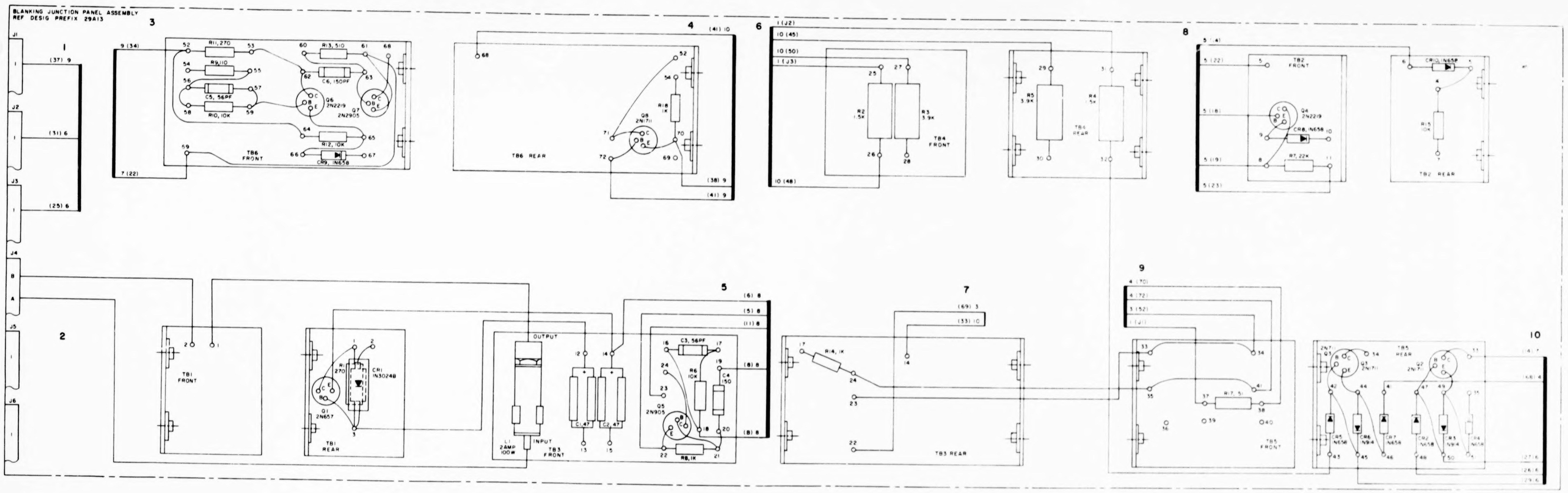
2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

24 (BB)
BASE LINE
LOCATION
PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. —+—+— INDICATES SHIELD CONNECTION
6. BRAID NUMBERS ARE ARBITRARILY ASSIGNED TO SHOW A COMPLETE BRAID WHEN A BRAID APPEARS AT TWO OR MORE LOCATIONS ON DRAWING.

FO-31. ASN-76/86 forward relay junction panel assembly (29A11) wiring diagram (sheet 2 of 2).

THIS SHEET CONTAINS
STATIONS 1 THRU 10


BLANKING JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A13
1
2
3
4
5
6
7
8
9
10
J1
J2
J3
J4
J5
J6
(37) 9
(31) 6
(25) 6
9 (34)
7 (22)
R11, 270
R9, 110
C5, 56PF
R10, 10K
R13, 510
C6, 150PF
Q6 2N2219
Q7 2N2905
R12, 10K
CR9, 1N658
TB6 FRONT
TB6 REAR
Q8 2N1711
R18 1K
(41) 10
(38) 9
(41) 9
1 (J2)
10 (45)
10 (50)
1 (J3)
10 (48)
R2 1.5K
R3 3.9K
TB4 FRONT
R5 3.9K
R4 1.5K
TB4 REAR
5 (4)
5 (22)
5 (18)
5 (19)
5 (23)
TB2 FRONT
Q4 2N2219
CR8, 1N658
R7, 22K
CR10, 1N658
R15 10K
TB2 REAR
TB1 FRONT
R1 270
CR1 1N3024B
Q1 2N657
TB1 REAR
OUTPUT
INPUT
L1 2AMP 100W
TB3 FRONT
C1, 47
C2, 47
(6) 8
(5) 8
(11) 8
(8) 8
C3, 56PF
R6 10K
C4 150
Q5 2N905
R8, 1K
R14, 1K
(69) 3
(33) 10
TB3 REAR
4 (70)
4 (72)
3 (52)
1 (J1)
R17, 51
TB5 FRONT
Q3 2N1711
Q2 2N1711
TB5 REAR
CR5 1N658
CR6 1N914
CR7 1N658
CR2 1N658
CR3 1N914
CR4 1N658
(14) 7
(68) 4
(27) 6
(28) 6
(29) 6

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

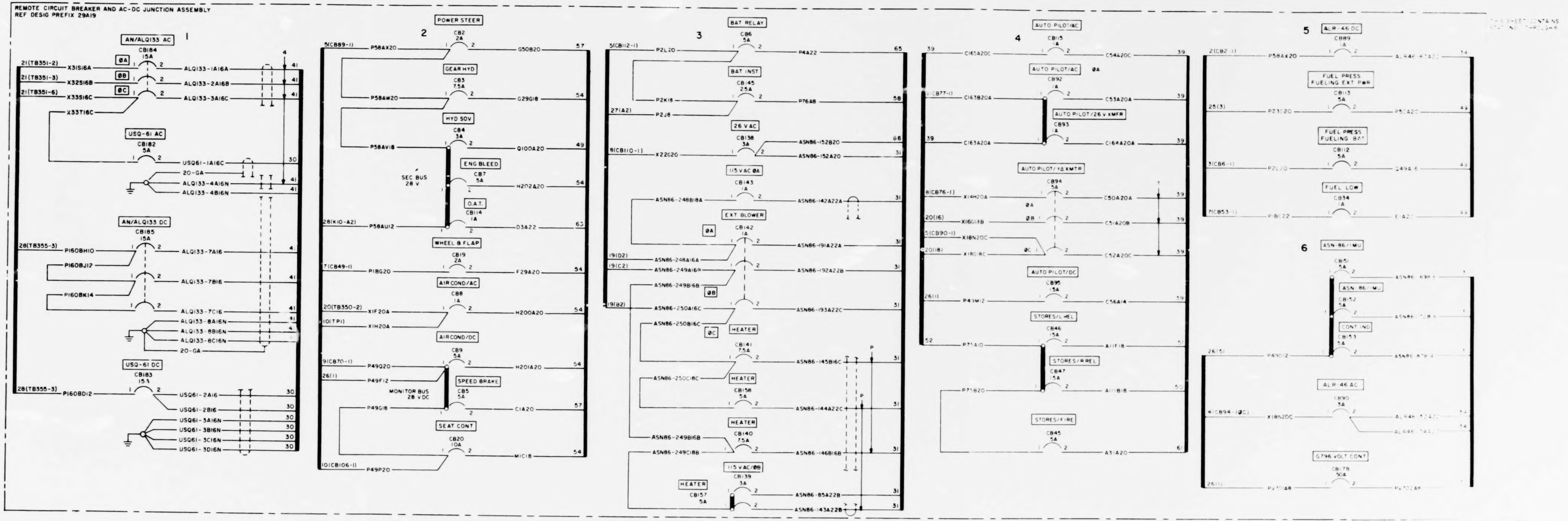
KY2B 16 C 22 N
FACILITY OR FUNCTION
CIRCUIT
WIRE SEGMENT
WIRE SIZE
GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

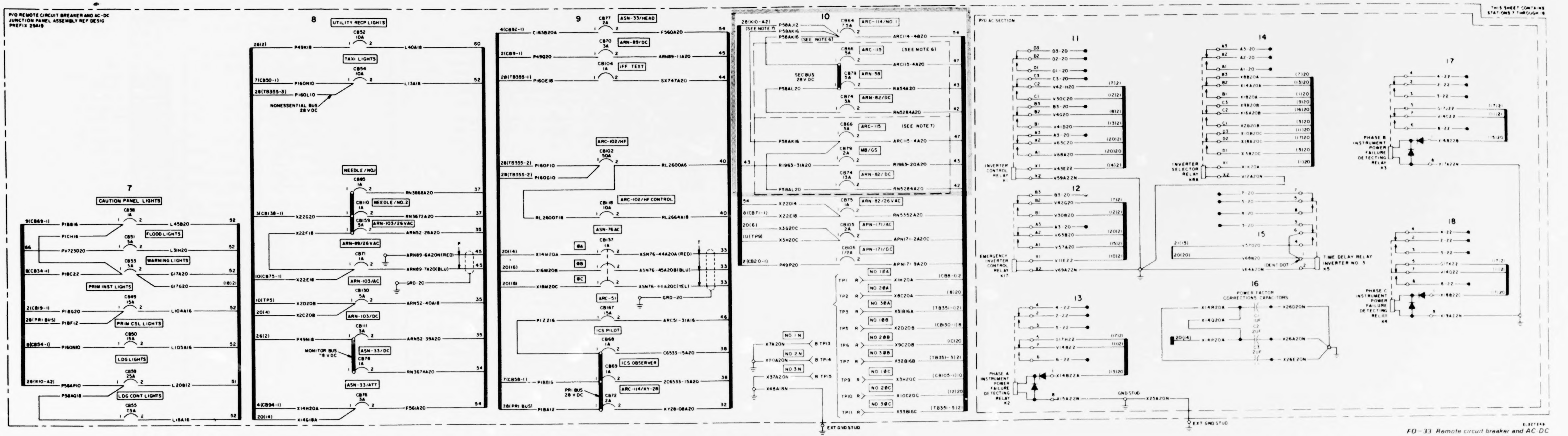
24 (88)
BASE LINE
LOCATION
PIN OR TERMINAL

3. UNLESS OTHERWISE INDICATED ALL RESISTANCE VALUES ARE IN OHMS, ALL CAPACITANCE VALUES ARE IN MICROFARADS.

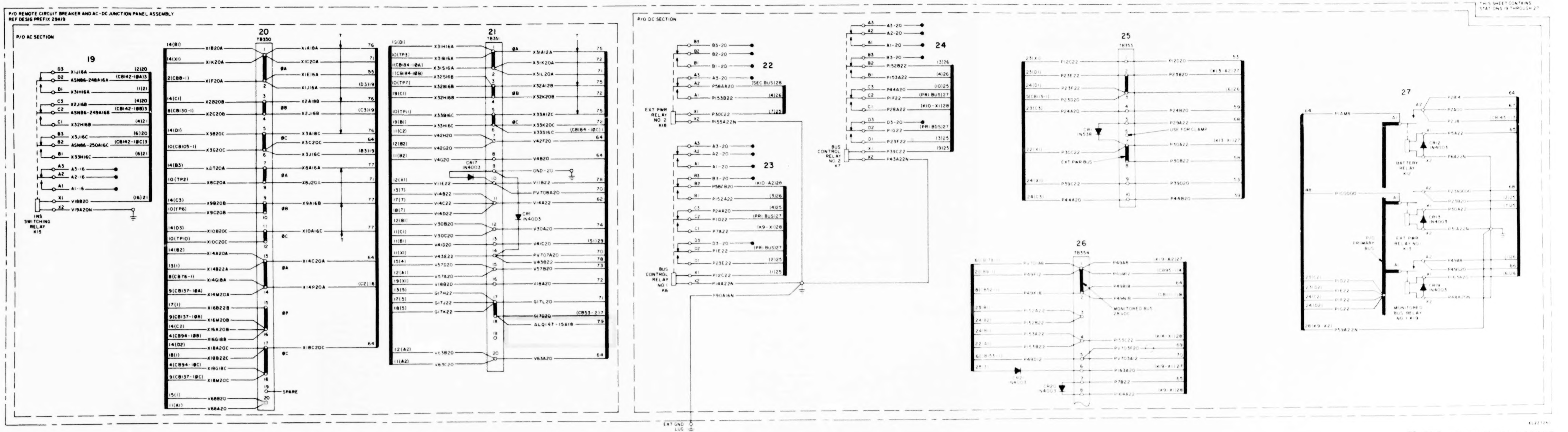
FO-32 Blanking junction panel assembly (29A13) wiring diagram.


REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION ASSEMBLY
REF DESIG PREFIX 29A19
THIS SHEET CONTAINS STATIONS 1 THROUGH 6
1
AN/ALQ133 AC
CB184 15A
ØA
ØB
ØC
21(TB351-2)
21(TB351-3)
21(TB351-6)
X31S16A
X32S16B
X33S16C
X33T16C
ALQ133-1A16A
ALQ133-2A16B
ALQ133-3A16C
USQ-61 AC
CB182 5A
USQ61-1A16C
20-GA
ALQ133-4A16N
ALQ133-4B16N
AN/ALQ133 DC
CB185 15A
28(TB355-3)
P160BH10
P160BJ12
P160BK14
ALQ133-7A16
ALQ133-7B16
ALQ133-7C16
ALQ133-8A16N
ALQ133-8B16N
ALQ133-8C16N
USQ-61 DC
CB183 15A
P160BD12
USQ61-2A16
USQ61-2B16
USQ61-3A16N
USQ61-3B16N
USQ61-3C16N
USQ61-3D16N
2
POWER STEER
CB2 2A
5(CB89-1)
P58AX20
G50B20
GEAR HYD
CB3 7.5A
P58AW20
G29G18
HYD SOV
CB4 3A
P58AV18
Q100A20
SEC BUS 28 V
ENG BLEED
CB7 5A
H202A20
O.A.T.
CB114 1A
28(K10-A2)
P58AU12
D3A22
WHEEL & FLAP
CB19 2A
7(CB49-1)
P18G20
F29A20
AIRCOND/AC
CB8 1A
20(TB350-2)
10(TP1)
X1F20A
X1H20A
H200A20
AIRCOND/DC
CB9 5A
9(CB70-1)
26(1)
P49Q20
P49F12
H201A20
MONITOR BUS 28 VDC
SPEED BRAKE
CB5 5A
P49G18
C1A20
SEAT CONT
CB20 10A
10(CB106-1)
P49P20
MIC18
3
BAT RELAY
CB6 5A
5(CB112-1)
P2L20
P4A22
BAT INST
CB145 25A
27(A2)
P2K18
P2J8
P76A8
26 VAC
CB138 3A
8(CB110-1)
X22G20
ASN86-152B20
ASN86-152A20
115 VAC ØA
CB143 1A
ASN86-248B18A
ASN86-142A22A
EXT BLOWER
CB142 1A
ØA
ØB
ØC
19(D2)
19(C2)
19(B2)
ASN86-248A16A
ASN86-249A16A
ASN86-249B16B
ASN86-250A16C
ASN86-250B16C
ASN86-191A22A
ASN86-192A22B
ASN86-193A22C
HEATER
CB141 7.5A
ASN86-145B16C
CB158 5A
ASN86-250C18C
ASN86-144A22C
CB140 7.5A
ASN86-249B16B
ASN86-249C18B
ASN86-146B16B
115 VAC/ØB
CB139 3A
CB157 5A
ASN86-85A22B
ASN86-143A22B
P
4
AUTO PILOT/AC
CB115 1A
C165A20C
C54A20C
CB92 1A
ØA
C163B20A
C53A20A
AUTO PILOT/26 V XMFR
CB93 1A
C163A20A
C164A20A
AUTO PILOT/YA XMTR
CB94 5A
X14H20A
X16G18B
X18N20C
X18G18C
C50A20A
C51A20B
C52A20C
AUTO PILOT/DC
CB95 15A
P43M12
C56A14
STORES/L REL
CB46 15A
P75A10
A11F18
STORES/R REL
CB47 15A
P75B20
A11B18
STORES/FIRE
CB45 5A
A31A20
5
ALR-46 DC
CB89 1A
P58AX20
FUEL PRESS FUELING EXT PWR
CB113 5A
P23C20
P50A20
FUEL PRESS FUELING BAT
CB112 5A
P2L20
FUEL LOW
CB34 1A
P18C22
6
ASN-86/IMU
CB151 5A
CB152 5A
CONT IND
CB153 5A
P49D12
ALR-46 AC
CB90 3A
X18N20C
G796 VOLT CONT
CB178 50A
PV70AB
PV702AB

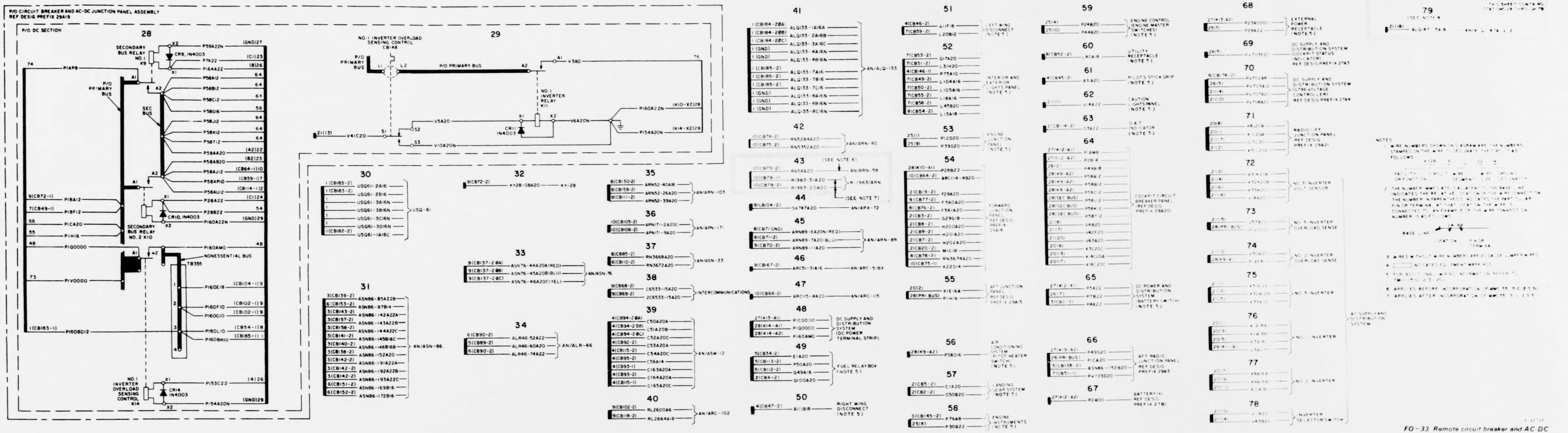
FO−33. Remote circuit breaker and AC DC [illegible] junction panel assembly 29A19 wiring diagram (sheet 1 of 4)


THIS SHEET CONTAINS STATIONS 7 THROUGH 18
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A19
7
CAUTION PANEL LIGHTS
FLOOD LIGHTS
WARNING LIGHTS
PRIM INST LIGHTS
PRIM CSL LIGHTS
LDG LIGHTS
LDG CONT LIGHTS
8
UTILITY RECP LIGHTS
TAXI LIGHTS
NONESSENTIAL BUS 28 V DC
NEEDLE/NO.1
NEEDLE/NO.2
ARN-103/26VAC
ARN-89/26VAC
ARN-103/AC
ARN-103/DC
MONITOR BUS 28 V DC
ASN-33/DC
ASN-33/ATT
9
ASN-33/HEAD
ARN-89/DC
IFF TEST
ARC-102/HF
ARC-102/HF CONTROL
ASN-76AC
ARC-51
ICS PILOT
ICS OBSERVER
PRI BUS 28 V DC
ARC-114/KY-28
10
ARC-114/NO.1
ARC-115
SEC BUS 28 V DC
ARN-58
ARN-82/DC
MB/GS
ARN-82/26VAC
APN-171/AC
APN-171/DC
SEE NOTE 6
SEE NOTE 7
P/O AC SECTION
11
INVERTER CONTROL RELAY K1
12
EMERGENCY INVERTER CONTROL RELAY K17
13
PHASE A INSTRUMENT POWER FAILURE DETECTING RELAY K2
GND STUD
14
INVERTER SELECTOR RELAY K8A
15
TIME DELAY RELAY INVERTER NO. 3 K5
IDENT DOT
16
POWER FACTOR CORRECTIONS CAPACITORS
17
PHASE B INSTRUMENT POWER FAILURE DETECTING RELAY K3
18
PHASE C INSTRUMENT POWER FAILURE DETECTING RELAY K4
EXT GND STUD
EXT GND STUD
EL3Z7249

FO-33. Remote circuit breaker and AC DC junction panel assembly (29A19) wiring diagram (sheet 2 of 4)


THIS SHEET CONTAINS STATIONS 19 THROUGH 27
P/O REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
P/O AC SECTION
P/O DC SECTION
19
20
TB350
21
TB351
22
23
24
25
TB353
26
TB354
27
1N5 SWITCHING RELAY K15
EXT PWR RELAY NO. 2 K18
BUS CONTROL RELAY NO. 1 K6
BUS CONTROL RELAY NO. 2 K7
BATTERY RELAY K12
EXT PWR RELAY NO. 1 K5
MONITORED BUS RELAY NO. 1 K9
P/O PRIMARY BUS
MONITORED BUS 28 VDC
EXT PWR BUS
SPARE
EXT GND LUG

FO-33. Remote circuit breaker and AC-DC junction panel assembly (29A19) wiring diagram (sheet 3 of 4)


P/O CIRCUIT BREAKER AND AC-DC JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A19
P/O DC SECTION
28
SECONDARY BUS RELAY NO. 1 K9
X2
P59A22N (GND)27
CR9, IN4003
P7A22 (C1)23
P164A22 (B)26
X1
74
P1AP8
A1
P/O PRIMARY BUS
A2
P58A12 64
P58B12 64
P58C12 64
SEC BUS
P58G16 56
P58J12 64
P58K12 64
P58T12 64
P58AA20 (A2)22
P58AB20 (B2)23
P58AJ12 (CB64-1)10
P58AP10 (CB59-1)7
P58AU12 (CB114-1)2
9(CB72-1) P1BA12
7(CB49-1) P1BF12
X1
P28A22 (C1)24
P28B22 54
CR10, IN4003
66 P1CA20
P160A22N (GND)29
X2
55 P1H16
SECONDARY BUS RELAY NO. 2 K10
48 P1Q0000
P160AM0 48
NONESSENTIAL BUS
TB355
73 P1V0000
1 P160E18 (CB104-1)9
2 P160F10 (CB102-1)9
P160G10 (CB102-1)9
1(CB183-1) P160BD12
3 P160L10 (CB54-1)8
P160BH10 (CB185-1)1
4
NO. 1 INVERTER OVERLOAD SENSING CONTROL K14
X1
P153C22 (4)26
CR14 IN4003
P154A20N (GND)29
X2
29
NO. 1 INVERTER OVERLOAD SENSING CONTROL CB148
P/O PRIMARY BUS
L1
L2
P/O PRIMARY BUS
A2
A1
V3A0
76
NO. 1 INVERTER RELAY K11
P160A22N (K10-X2)28
X1
X2
V5A20
V6A20N
CR11 IN4003
P154A20N (K14-X2)28
21(13) V4IC20
S1
S2
S3
V10A20N
30
1(CB183-2) USQ61-2A16
1(CB183-2) USQ61-2B16
1 USQ61-3A16N
1 USQ61-3B16N
1 USQ61-3C16N
1 USQ61-3D16N
1(CB182-2) USQ61-1A16C
USQ-61
31
3(CB139-2) ASN86-85A22B
6(CB153-2) ASN86-87B14
3(CB143-2) ASN86-142A22A
3(CB157-2) ASN86-143A22B
3(CB158-2) ASN86-144A22C
3(CB141-2) ASN86-145B16C
3(CB140-2) ASN86-146B16B
3(CB138-2) ASN86-152A20
3(CB142-2) ASN86-191A22A
3(CB142-2) ASN86-192A22B
3(CB142-2) ASN86-193A22C
6(CB151-2) ASN86-169B16
6(CB152-2) ASN86-172B16
AN/ASN-86
32
9(CB72-2) KY28-08A20 KY-28
33
9(CB137-20A) ASN76-44A20A(RED)
9(CB137-20B) ASN76-45A20B(BLU)
9(CB137-20C) ASN76-46A20C(YEL)
AN/ASN-76
34
6(CB90-2) ALR46-52A22
5(CB89-2) ALR46-60A20
6(CB90-2) ALR46-74A22
AN/ALR-46
35
8(CB130-2) ARN52-40A18
8(CB159-2) ARN52-26A20
8(CB111-2) ARN52-39A20
AN/ARN-103
36
10(CB105-2) APN171-2A20C
10(CB106-2) APN171-9A20
AN/APN-171
37
8(CB85-2) RN3668A20
8(CB110-2) RN3672A20
AN/ASN-33
38
9(CB68-2) C6533-15A20
9(CB69-2) 2C6533-15A20
INTERCOMMUNICATIONS
39
4(CB94-20A) C50A20A
4(CB94-20B) C51A20B
4(CB94-20C) C52A20C
4(CB92-2) C53A20A
4(CB115-2) C54A20C
4(CB95-2) C56A14
4(CB93-1) C163A20A
4(CB93-2) C164A20A
4(CB115-1) C165A20C
AN/ASW-12
40
9(CB102-2) RL2600A6
9(CB118-2) RL2664A18
AN/ARC-102
41
1(CB184-20A) ALQ133-1A16A
1(CB184-20B) ALQ133-2A16B
1(CB184-20C) ALQ133-3A16C
1(GND) ALQ133-4A16N
1(GND) ALQ133-4B16N
1(CB185-2) ALQ133-7A16
1(CB185-2) ALQ133-7B16
1(CB185-2) ALQ133-7C16
1(GND) ALQ133-8A16N
1(GND) ALQ133-8B16N
1(GND) ALQ133-8C16N
AN/ALQ-133
42
10(CB74-2) RN5284A20
10(CB75-2) RN5352A20
AN/ARN-82
43
(SEE NOTE 6)
10(CB79-2) RA54A20 AN/ARN-58
10(CB79-1) R1963-31A20
10(CB79-2) R1963-20A20
R-1963/ARN
(SEE NOTE 7)
44
9(CB104-2) SX747A20 AN/APX-72
45
8(CB71 GND) ARN89-6A20N(RED)
8(CB71-2) ARN89-7A20(BLU)
9(CB70-2) ARN89-11A20
AN/ARN-89
46
9(CB167-2) ARC51-31A16 AN/ARC-51BX
47
10(CB66-2) ARC115-4A20 AN/ARC-115
48
27(K13-A1) P1C0000
28(K14-A1) P1Q0000
28(K14-A2) P160AM0
DC SUPPLY AND DISTRIBUTION SYSTEM (DC POWER TERMINAL STRIP)
49
5(CB34-2) E1A20
5(CB113-2) P50A20
5(CB112-2) Q49A16
2(CB4-2) Q100A20
FUEL RELAY BOX (NOTE 5)
50
4(CB47-2) A111B18
RIGHT WING DISCONNECT (NOTE 5)
51
4(CB46-2) A11F18
7(CB59-2) L20B12
LEFT WING DISCONNECT (NOTE 5)
52
7(CB53-2) G17A20
7(CB51-2) L31H20
4(CB146-1) P75A10
7(CB49-2) L104A16
7(CB50-2) L105A16
7(CB55-2) L18A16
7(CB58-2) L45B20
8(CB54-2) L13A18
INTERIOR AND EXTERIOR LIGHTS PANEL (NOTE 5)
53
25(1) P12D20
25(9) P39D20
ENGINE JUNCTION PANEL (NOTE 5)
54
28(K10-X1) P28B22
10(CB64-2) ARC114-4B20
2(CB19-2) F29A20
9(CB77-2) F560A20
8(CB76-2) F561A20
2(CB3-2) G29G18
2(CB8-2) H200A20
2(CB9-2) H201A20
2(CB7-2) H202A20
2(CB20-2) M1C18
8(CB78-2) RN3674A20
10(CB75-1) X22D14
FORWARD JUNCTION PANEL REF DESIG PREFIX 29A18
55
20(2) X1E16A
28(PRI BUS) P1H16
AFT JUNCTION PANEL REF DESIG PREFIX 29A15
56
28(K9-A2) P58G16
AIR CONDITIONING SYSTEM (PITOT HEATER SWITCH) (NOTE 5)
57
2(CB5-2) C1A20
2(CB2-2) G50B20
LANDING GEAR SYSTEM (NOTE 5)
58
3(CB145-2) P76A8
25(8) P30B22
ENGINE INSTRUMENTS (NOTE 5)
59
25(4) P24B20
25(10) P44B20
ENGINE CONTROL (ENGINE MASTER SWITCHES) (NOTE 5)
60
8(CB52-2) L40A18
UTILITY RECEPTACLE (NOTE 5)
61
4(CB45-2) A31A20
PILOT'S STICK GRIP (NOTE 5)
62
21(11) V14A22
CAUTION LIGHTS PANEL (NOTE 5)
63
2(CB114-2) D3A22
O.A.T. INDICATOR (NOTE 5)
64
27(K12-A1) P1AM8
27(K12-A2) P2B14
26(2) P49B18
28(K9-A2) P58A12
28(K9-A2) P58B12
28(K9-A2) P58C12
28(SEC BUS) P58J12
28(SEC BUS) P58K12
28(SEC BUS) P58T12
21(8) V4B20
21(7) V42F20
21(20) V63A20
20(6) X3C20C
20(13) X14C20A
20(17) X18C20C
COCKPIT CIRCUIT BREAKER PANEL (REF DESIG PREFIX 29A20)
65
27(K12-X1) P5A22
26(7) P7B22
3(CB6-2) P4A22
DC POWER AND DISTRIBUTION SYSTEM (BATTERY SWITCH) (NOTE 5)
66
27(K19-A2) P49S20
28(PRI BUS) P1CA20
3(CB138-2) ASN86-152B20
7(CB51-1) PV723D20
AFT RADIO JUNCTION PANEL REF DESIG PREFIX 29A3
67
27(K12-A2) P2A00
BATTERY(+) REF DESIG PREFIX 27B1
68
27(K13-A2) P23A0000
25(5) P29A22
EXTERNAL POWER RECEPTACLE (NOTE 5)
69
26(5) PV703F20
DC SUPPLY AND DISTRIBUTION SYSTEM (COCKPIT STATUS INDICATOR) REF DESIG PREFIX 27A3
70
6(CB178-2) PV702A8
26(5) PV703A12
21(14) PV707A20
21(10) PV708A20
DC SUPPLY AND DISTRIBUTION SYSTEM (G796 VOLTAGE CONTROLLER) REF DESIG PREFIX 27A4
71
20(8) X8J20A
20(1) X1C20A
21(17) G17L20
21(2) X31L20A
RADIO/IFF JUNCTION PANEL REF DESIG PREFIX 29A21
72
21(2) X31K20A
21(4) X32K20B
21(6) X33K20C
21(16) V18A20
NO. 3 INVERTER VOLT SENSOR
73
21(5) V57B20
28(PRI BUS) P1V0000
NO. 3 INVERTER OVERLOAD SENSE
74
21(12) V30A20
28(K9-A1) P1AP8
NO. 2 INVERTER OVERLOAD SENSE
75
21(1) X31A2A
21(3) X32A2B
21(5) X33A2C
NO. 3 INVERTER
76
20(1) X1A8A
20(3) X2A8B
20(5) X3A8C
29(K11-A1) V3A0
NO. 1 INVERTER
77
20(7) X8A6A
20(9) X9A6B
20(11) X10A6C
NO. 2 INVERTER
78
21(10) V1B22
21(14) V43B22
INVERTER SELECTOR SWITCH
AC SUPPLY AND DISTRIBUTION SYSTEM
79
(SEE NOTE 6)
21(18) ALQ147-5A18 AN/ALQ-147A(V)2
THIS SHEET CONTAINS STATIONS 28 THROUGH 79

NOTES

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   X128 5 [illegible] 22 N

   FACILITY OR FUNCTION, CIRCUIT, WIRE SEGMENT, WIRE SIZE, GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

   BASE LINE 24 (8) LOCATION PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

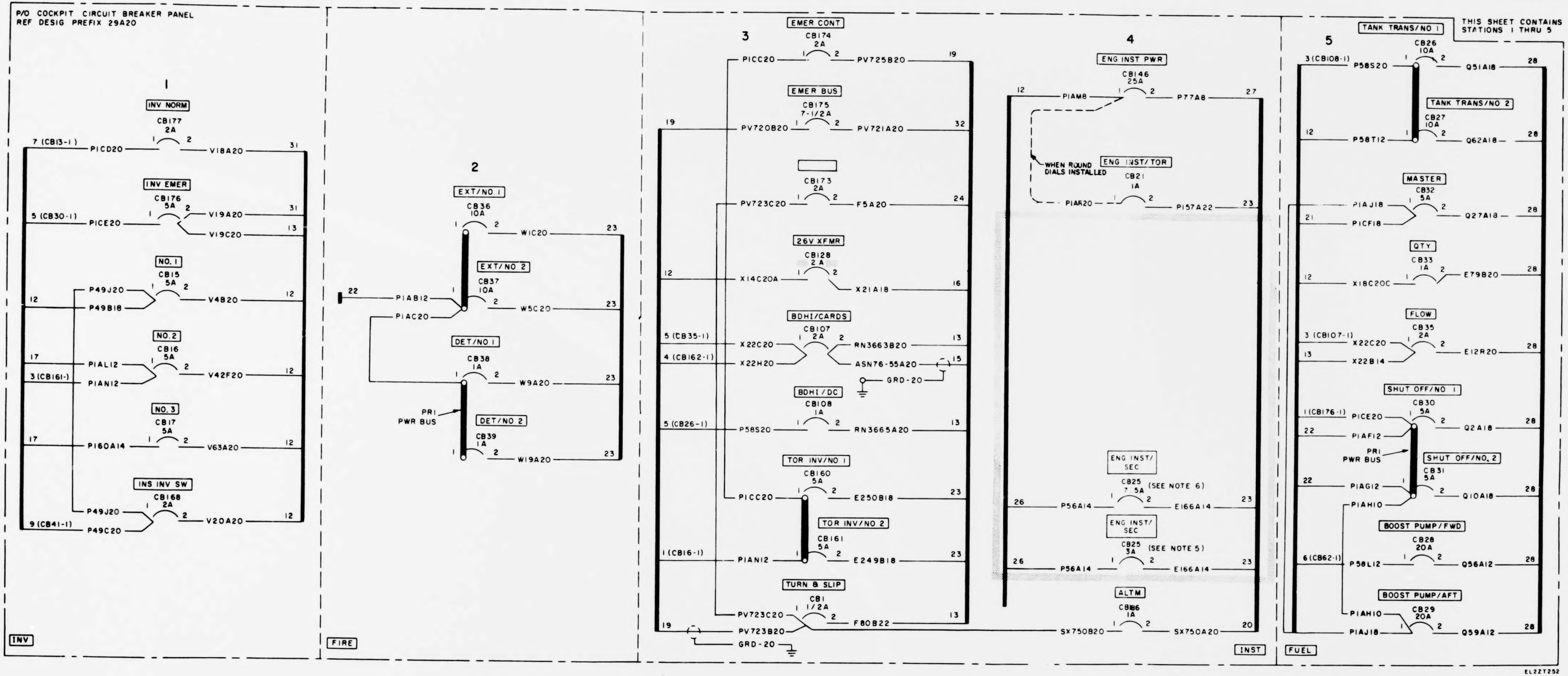
4. ☐ INDICATES EQUIPMENT MARKINGS.

5. FOR ADDITIONAL WIRING INFORMATION REFER TO TM 11-1510-213-20-1.

6. APPLIES BEFORE INCORPORATION OF MWO 55-1510-213-50-[illegible]

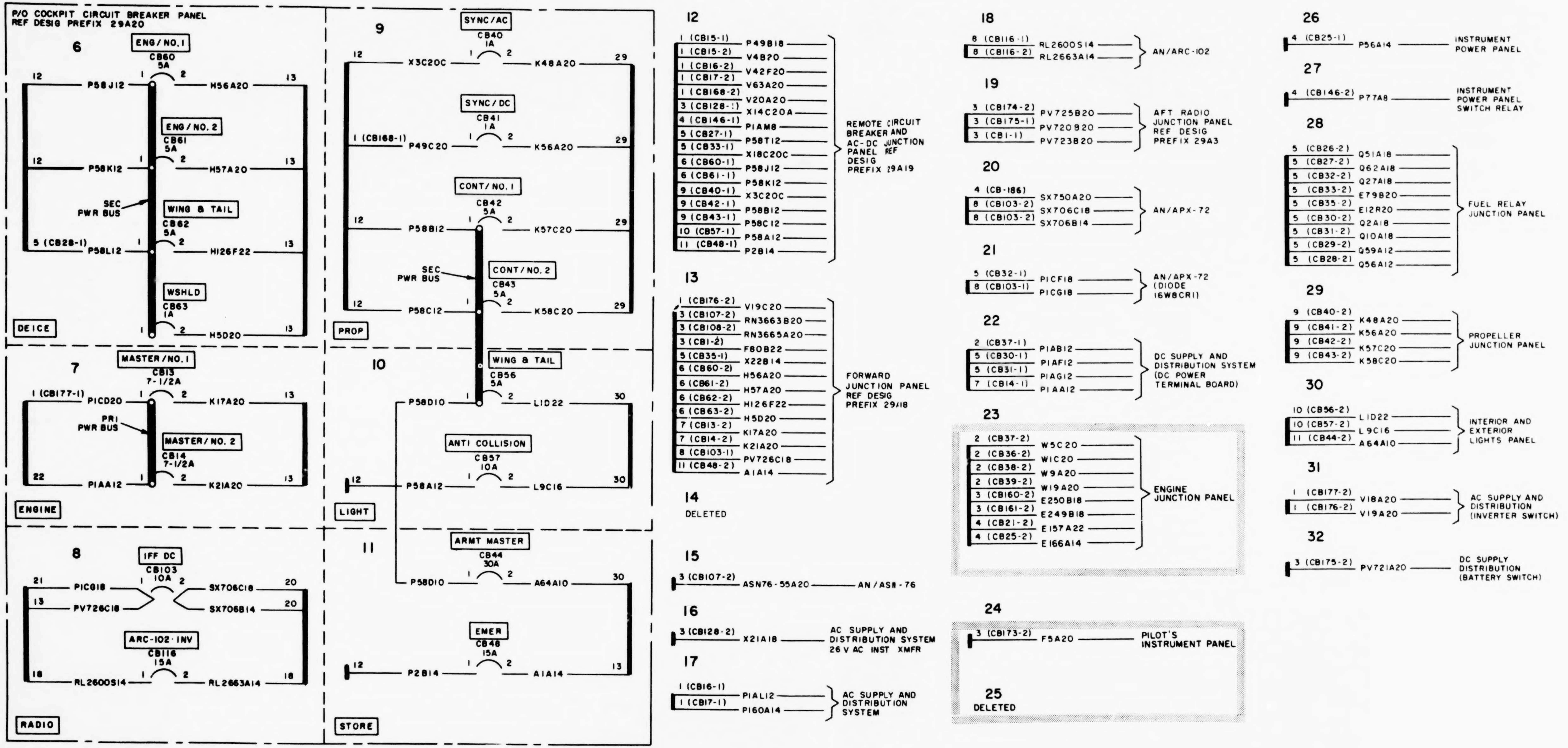
7. APPLIES AFTER INCORPORATION OF MWO 55-1510-213-5[illegible]

FO-33 Remote circuit breaker and AC-DC junction panel assembly (29A19) wiring diagram (sheet 4 of 4)


P/O COCKPIT CIRCUIT BREAKER PANEL
REF DESIG PREFIX 29A20
THIS SHEET CONTAINS STATIONS 1 THRU 5
1
INV NORM
CB177 2A
7 (CB13-1)
P1CD20
V18A20
31
INV EMER
CB176 5A
5 (CB30-1)
P1CE20
V19A20
V19C20
13
NO. 1
CB15 5A
P49J20
P49B18
V4B20
12
NO. 2
CB16 5A
17
3 (CB161-)
P1AL12
P1AN12
V42F20
NO. 3
CB17 5A
P160A14
V63A20
INS INV SW
CB168 2A
9 (CB41-1)
P49J20
P49C20
V20A20
INV
2
EXT/NO 1
CB36 10A
W1C20
23
EXT/NO 2
CB37 10A
22
P1AB12
P1AC20
W5C20
DET/NO 1
CB38 1A
W9A20
PR1 PWR BUS
DET/NO 2
CB39 1A
W19A20
FIRE
3
EMER CONT
CB174 2A
P1CC20
PV725B20
19
EMER BUS
CB175 7-1/2A
PV720B20
PV721A20
32
CB173 2A
PV723C20
F5A20
24
26V XFMR
CB128 2A
X14C20A
X21A18
16
BDHI/CARDS
CB107 2A
5 (CB35-1)
4 (CB162-1)
X22C20
X22H20
RN3663B20
ASN76-55A20
GRD-20
15
BDHI/DC
CB108 1A
5 (CB26-1)
P58S20
RN3665A20
TOR INV/NO 1
CB160 5A
P1CC20
E250B18
TOR INV/NO 2
CB161 5A
1 (CB16-1)
P1AN12
E249B18
TURN & SLIP
CB1 1/2A
PV723C20
PV723B20
GRD-20
F80B22
INST
4
ENG INST PWR
CB146 25A
P1AM8
P77A8
27
WHEN ROUND DIALS INSTALLED
ENG INST/TOR
CB21 1A
P1AR20
P157A22
ENG INST/SEC
CB25 7.5A
(SEE NOTE 6)
26
P56A14
E166A14
ENG INST/SEC
CB25 3A
(SEE NOTE 5)
ALTM
CB116 1A
SX750B20
SX750A20
20
5
TANK TRANS/NO 1
CB26 10A
3 (CB108-1)
P58S20
Q51A18
28
TANK TRANS/NO 2
CB27 10A
P58T12
Q62A18
MASTER
CB32 5A
21
P1AJ18
P1CF18
Q27A18
QTY
CB33 1A
X18C20C
E79B20
FLOW
CB35 2A
3 (CB107-1)
X22C20
X22B14
E12R20
SHUT OFF/NO 1
CB30 5A
1 (CB176-1)
P1CE20
P1AF12
Q2A18
PR1 PWR BUS
SHUT OFF/NO. 2
CB31 5A
P1AG12
P1AH10
Q10A18
BOOST PUMP/FWD
CB28 20A
6 (CB62-1)
P58L12
Q56A12
BOOST PUMP/AFT
CB29 20A
P1AH10
P1AJ18
Q59A12
FUEL
EL2ZT252

FO–34. Cockpit circuit breaker panel assembly (29A20) wiring diagram (sheet 1 of 2).

THIS SHEET CONTAINS
STATIONS 6 THRU 33


P/O COCKPIT CIRCUIT BREAKER PANEL
REF DESIG PREFIX 29A20
6
ENG/NO. 1
CB60
5A
12
P58J12
1
2
H56A20
13
ENG/NO. 2
CB61
5A
P58K12
H57A20
SEC
PWR BUS
WING & TAIL
CB62
5A
5 (CB28-1)
P58L12
H126F22
WSHLD
CB63
1A
H5D20
DEICE
7
MASTER/NO. 1
CB13
7-1/2A
1 (CB177-1)
P1CD20
K17A20
PRI
PWR BUS
MASTER/NO. 2
CB14
7-1/2A
22
P1AA12
K21A20
ENGINE
8
IFF DC
CB103
10A
21
P1CG18
13
PV726C18
SX706C18
20
SX706B14
ARC-102 INV
CB116
15A
18
RL2600S14
RL2663A14
RADIO
9
SYNC/AC
CB40
1A
X3C20C
K48A20
29
SYNC/DC
CB41
1A
1 (CB168-1)
P49C20
K56A20
CONT/NO. 1
CB42
5A
P58B12
K57C20
CONT/NO. 2
CB43
5A
P58C12
K58C20
PROP
10
WING & TAIL
CB56
5A
P58D10
L1D22
30
ANTI COLLISION
CB57
10A
P58A12
L9C16
LIGHT
11
ARMT MASTER
CB44
30A
P58D10
A64A10
EMER
CB48
15A
P2B14
A1A14
STORE
12
1 (CB15-1) P49B18
1 (CB15-2) V4B20
1 (CB16-2) V42F20
1 (CB17-2) V63A20
1 (CB168-2) V20A20
3 (CB128-1) X14C20A
4 (CB146-1) P1AM8
5 (CB27-1) P58T12
5 (CB33-1) X18C20C
6 (CB60-1) P58J12
6 (CB61-1) P58K12
9 (CB40-1) X3C20C
9 (CB42-1) P58B12
9 (CB43-1) P58C12
10 (CB57-1) P58A12
11 (CB48-1) P2B14
REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL REF DESIG PREFIX 29A19
13
1 (CB176-2) V19C20
3 (CB107-2) RN3663B20
3 (CB108-2) RN3665A20
3 (CB1-2) F80B22
5 (CB35-1) X22B14
6 (CB60-2) H56A20
6 (CB61-2) H57A20
6 (CB62-2) H126F22
6 (CB63-2) H5D20
7 (CB13-2) K17A20
7 (CB14-2) K21A20
8 (CB103-1) PV726C18
11 (CB48-2) A1A14
FORWARD JUNCTION PANEL REF DESIG PREFIX 29A18
14
DELETED
15
3 (CB107-2) ASN76-55A20 AN/ASN-76
16
3 (CB128-2) X21A18 AC SUPPLY AND DISTRIBUTION SYSTEM 26 V AC INST XMFR
17
1 (CB16-1) P1AL12
1 (CB17-1) P160A14
AC SUPPLY AND DISTRIBUTION SYSTEM
18
8 (CB116-1) RL2600S14
8 (CB116-2) RL2663A14
AN/ARC-102
19
3 (CB174-2) PV725B20
3 (CB175-1) PV720B20
3 (CB1-1) PV723B20
AFT RADIO JUNCTION PANEL REF DESIG PREFIX 29A3
20
4 (CB-186) SX750A20
8 (CB103-2) SX706C18
8 (CB103-2) SX706B14
AN/APX-72
21
5 (CB32-1) P1CF18
8 (CB103-1) P1CG18
AN/APX-72 (DIODE 16W8CR1)
22
2 (CB37-1) P1AB12
5 (CB30-1) P1AF12
5 (CB31-1) P1AG12
7 (CB14-1) P1AA12
DC SUPPLY AND DISTRIBUTION SYSTEM (DC POWER TERMINAL BOARD)
23
2 (CB37-2) W5C20
2 (CB36-2) W1C20
2 (CB38-2) W9A20
2 (CB39-2) W19A20
3 (CB160-2) E250B18
3 (CB161-2) E249B18
4 (CB21-2) E157A22
4 (CB25-2) E166A14
ENGINE JUNCTION PANEL
24
3 (CB173-2) F5A20 PILOT'S INSTRUMENT PANEL
25
DELETED
26
4 (CB25-1) P56A14 INSTRUMENT POWER PANEL
27
4 (CB146-2) P77A8 INSTRUMENT POWER PANEL SWITCH RELAY
28
5 (CB26-2) Q51A18
5 (CB27-2) Q62A18
5 (CB32-2) Q27A18
5 (CB33-2) E79B20
5 (CB35-2) E12R20
5 (CB30-2) Q2A18
5 (CB31-2) Q10A18
5 (CB29-2) Q59A12
5 (CB28-2) Q56A12
FUEL RELAY JUNCTION PANEL
29
9 (CB40-2) K48A20
9 (CB41-2) K56A20
9 (CB42-2) K57C20
9 (CB43-2) K58C20
PROPELLER JUNCTION PANEL
30
10 (CB56-2) L1D22
10 (CB57-2) L9C16
11 (CB44-2) A64A10
INTERIOR AND EXTERIOR LIGHTS PANEL
31
1 (CB177-2) V18A20
1 (CB176-2) V19A20
AC SUPPLY AND DISTRIBUTION (INVERTER SWITCH)
32
3 (CB175-2) PV721A20 DC SUPPLY DISTRIBUTION (BATTERY SWITCH)

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

KY28 16 C 22 N

FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

24 (BB)

BASE LINE — LOCATION — PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4. ☐ INDICATES EQUIPMENT MARKINGS.

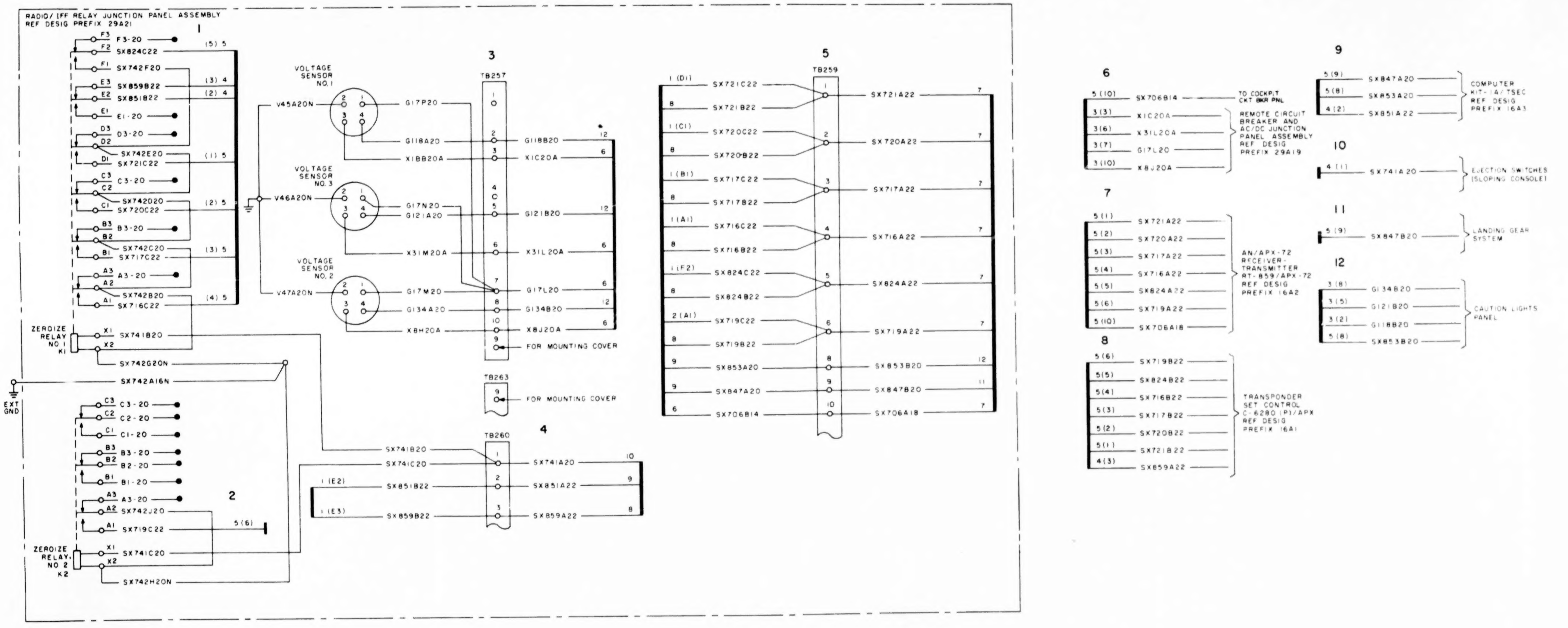
5. APPLIES BEFORE INCORPORATION OF MWO 55-1510-213-30-3.

6. APPLIES AFTER INCORPORATION OF MWO 55-1510-213-30-3.

EL2ZT253

FO-34. Cockpit circuit breaker panel assembly (29A20) wiring diagram (sheet 2 of 2).

THIS SHEET CONTAINS
STATION 1 THRU 12


RADIO/ IFF RELAY JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A21
1
F3
F3-20
F2
SX824C22
(5) 5
F1
SX742F20
E3
SX859B22
(3) 4
E2
SX851B22
(2) 4
E1
E1-20
D3
D3-20
D2
SX742E20
D1
SX721C22
(1) 5
C3
C3-20
C2
SX742D20
C1
SX720C22
(2) 5
B3
B3-20
B2
SX742C20
B1
SX717C22
(3) 5
A3
A3-20
A2
SX742B20
A1
SX716C22
(4) 5
ZEROIZE RELAY NO 1 K1
X1
SX741B20
X2
SX742G20N
SX742A16N
EXT GND
C3
C3-20
C2
C2-20
C1
C1-20
B3
B3-20
B2
B2-20
B1
B1-20
A3
A3-20
A2
SX742J20
A1
SX719C22
5 (6)
2
ZEROIZE RELAY, NO 2 K2
X1
SX741C20
X2
SX742H20N
VOLTAGE SENSOR NO. 1
V45A20N
VOLTAGE SENSOR NO. 3
V46A20N
VOLTAGE SENSOR NO. 2
V47A20N
G17P20
G118A20
X1B B20A
G17N20
G121A20
X31M20A
G17M20
G134A20
X8H20A
3
TB257
G118B20
12
X1C20A
6
G121B20
12
X31L20A
6
G17L20
6
G134B20
12
X8J20A
6
FOR MOUNTING COVER
TB263
9
FOR MOUNTING COVER
4
TB260
SX741B20
SX741C20
SX741A20
10
1 (E2)
SX851B22
SX851A22
9
1 (E3)
SX859B22
SX859A22
8
5
TB259
1 (D1)
SX721C22
8
SX721B22
SX721A22
7
1 (C1)
SX720C22
8
SX720B22
SX720A22
7
1 (B1)
SX717C22
8
SX717B22
SX717A22
7
1 (A1)
SX716C22
8
SX716B22
SX716A22
7
1 (F2)
SX824C22
8
SX824B22
SX824A22
7
2 (A1)
SX719C22
8
SX719B22
SX719A22
7
9
SX853A20
SX853B20
12
9
SX847A20
SX847B20
11
6
SX706B14
SX706A18
7
6
5 (10)
SX706B14
TO COCKPIT CKT BKR PNL
3 (3)
X1C20A
3 (6)
X31L20A
3 (7)
G17L20
3 (10)
X8J20A
REMOTE CIRCUIT BREAKER AND AC/DC JUNCTION PANEL ASSEMBLY REF DESIG PREFIX 29A19
7
5 (1)
SX721A22
5 (2)
SX720A22
5 (3)
SX717A22
5 (4)
SX716A22
5 (5)
SX824A22
5 (6)
SX719A22
5 (10)
SX706A18
AN/APX-72 RECEIVER-TRANSMITTER RT-859/APX-72 REF DESIG PREFIX 16A2
8
5 (6)
SX719B22
5 (5)
SX824B22
5 (4)
SX716B22
5 (3)
SX717B22
5 (2)
SX720B22
5 (1)
SX721B22
4 (3)
SX859A22
TRANSPONDER SET CONTROL C-6280 (P)/APX REF DESIG PREFIX 16A1
9
5 (9)
SX847A20
5 (8)
SX853A20
4 (2)
SX851A22
COMPUTER KIT-1A/TSEC REF DESIG PREFIX 16A3
10
4 (1)
SX741A20
EJECTION SWITCHES (SLOPING CONSOLE)
11
5 (9)
SX847B20
LANDING GEAR SYSTEM
12
3 (8)
G134B20
3 (5)
G121B20
3 (2)
G118B20
5 (8)
SX853B20
CAUTION LIGHTS PANEL

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

   KY28 16 C 22 N
   FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

   24 (BB)
   BASE LINE
   LOCATION
   PIN OR TERMINAL

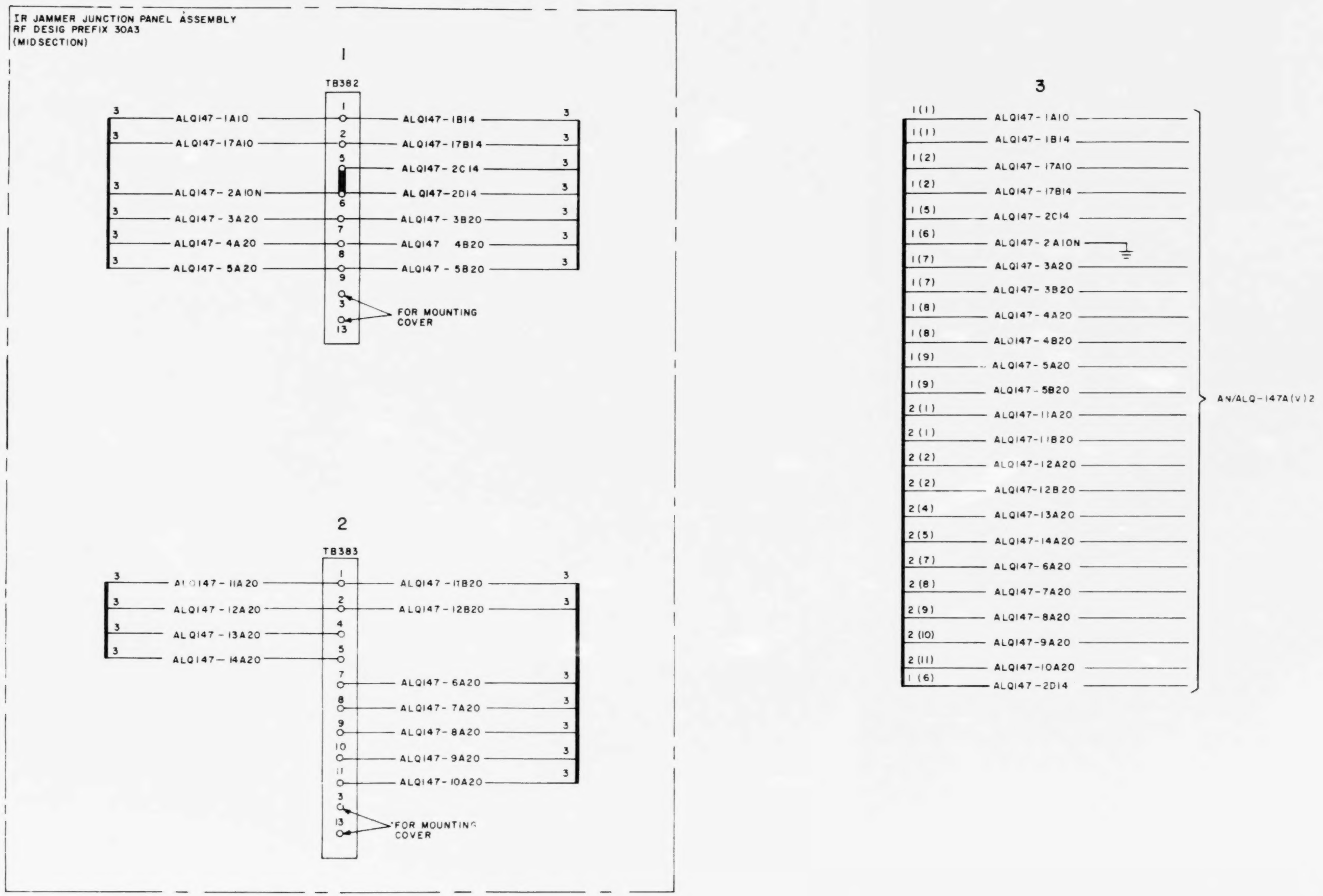
3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.

4. ▭ INDICATES EQUIPMENT MARKINGS.

EL227254

FO-35. Radio/IFF panel assembly (29A21) wiring diagram.

THIS SHEET CONTAINS
STATIONS 1 THRU 3


IR JAMMER JUNCTION PANEL ASSEMBLY
RF DESIG PREFIX 30A3
(MIDSECTION)
1
TB382
3
ALQ147-1A10
ALQ147-1B14
ALQ147-17A10
ALQ147-17B14
ALQ147-2C14
ALQ147-2A10N
ALQ147-2D14
ALQ147-3A20
ALQ147-3B20
ALQ147-4A20
ALQ147 4B20
ALQ147-5A20
ALQ147-5B20
1
2
5
6
7
8
9
3
13
FOR MOUNTING COVER
2
TB383
ALQ147-11A20
ALQ147-11B20
ALQ147-12A20
ALQ147-12B20
ALQ147-13A20
ALQ147-14A20
ALQ147-6A20
ALQ147-7A20
ALQ147-8A20
ALQ147-9A20
ALQ147-10A20
1
2
4
5
7
8
9
10
11
3
13
FOR MOUNTING COVER
3
1(1) ALQ147-1A10
1(1) ALQ147-1B14
1(2) ALQ147-17A10
1(2) ALQ147-17B14
1(5) ALQ147-2C14
1(6) ALQ147-2A10N
1(7) ALQ147-3A20
1(7) ALQ147-3B20
1(8) ALQ147-4A20
1(8) ALQ147-4B20
1(9) ALQ147-5A20
1(9) ALQ147-5B20
2(1) ALQ147-11A20
2(1) ALQ147-11B20
2(2) ALQ147-12A20
2(2) ALQ147-12B20
2(4) ALQ147-13A20
2(5) ALQ147-14A20
2(7) ALQ147-6A20
2(8) ALQ147-7A20
2(9) ALQ147-8A20
2(10) ALQ147-9A20
2(11) ALQ147-10A20
1(6) ALQ147-2D14
AN/ALQ-147A(V)2

NOTES

1 WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS.

KY28 16 C 22 N
FACILITY OR FUNCTION
CIRCUIT
WIRE SEGMENT
WIRE SIZE
GROUND DESIGNATOR

2 THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS.

24 (BB)
BASE LINE
LOCATION
PIN OR TERMINAL

3 WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRE

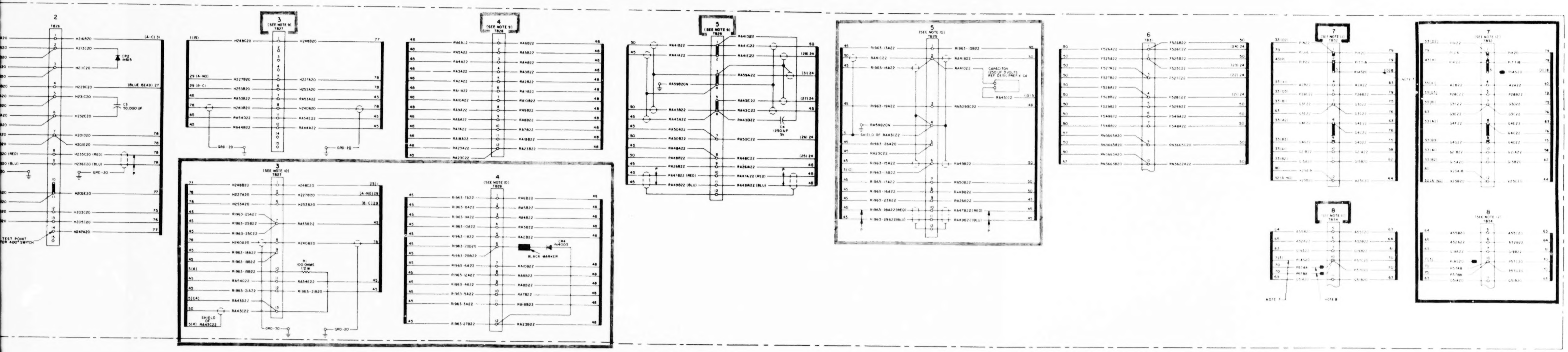
4 ▭ INDICATES EQUIPMENT MARKINGS.

EL2ZT364

FO-36. IR jammer junction panel assembly (30A3) wiring diagram.

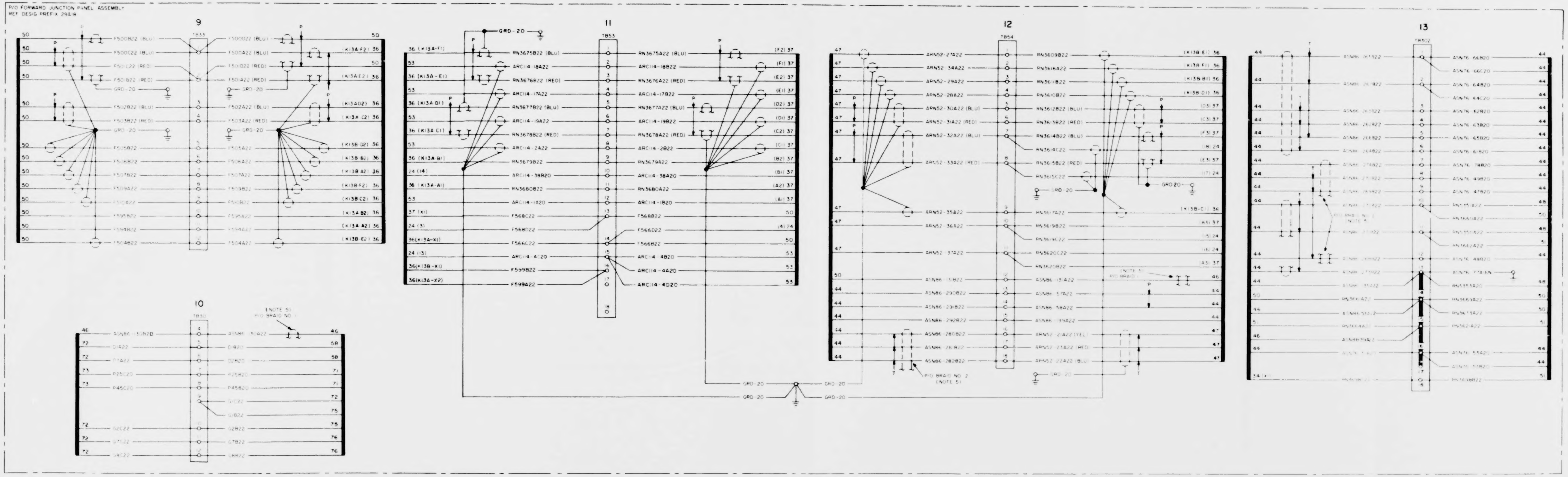
P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
1
TB25
2
TB26
3
(SEE NOTE 9)
TB27
4
(SEE NOTE 9)
TB28
5
(SEE NOTE 9)
TB29
3
(SEE NOTE 10)
TB27
4
(SEE NOTE 10)
TB28
5
(SEE NOTE 10)
TB29
6
TB31
7
8
CR1
IN615
CR2
IN615
CR3
IN615
C1
50,000 UF
TEST POINT
FOR 400° SWITCH
GRD-20
R1
100 OHMS
1/2 W
SHIELD OF RA43C22
BLACK MARKER
CR4
1N4003
CAPACITOR
(250 UF 3 VOLTS)
C4
(250 UF
3V)
H224B20
H224C20
H224E20
H224F20
H248C20
H248B20
RA43C22
(BLUE BEAD)
NOTE 7
NOTE 8

THIS SHEET CONTAINS
STATIONS 1 THRU 8


2
TB26
(A-C) 3)
CR2 1N815
(BLUE BEAD) 27
C3 10,000 UF
GRD-20
TEST POINT FOR 400T SWITCH
3
(SEE NOTE 9)
TB27
4
(SEE NOTE 9)
TB28
5
(SEE NOTE 9)
TB29
C4 1250 UF 3V
3
(SEE NOTE 10)
TB27
R1 100 OHMS 1/2 W
SHIELD OF RA43C22
4
(SEE NOTE 10)
TB28
CR4 1N4003
BLACK MARKER
5
(SEE NOTE 10)
TB29
CAPACITOR 1250 UF 3 VOLTS REF DESIG PREFIX C4
SHIELD OF RA43C22
6
TB31
7
(SEE NOTE 11)
TB32
7
(SEE NOTE 12)
TB32
8
(SEE NOTE 11)
TB34
8
(SEE NOTE 12)
TB34
NOTE 7
NOTE 8

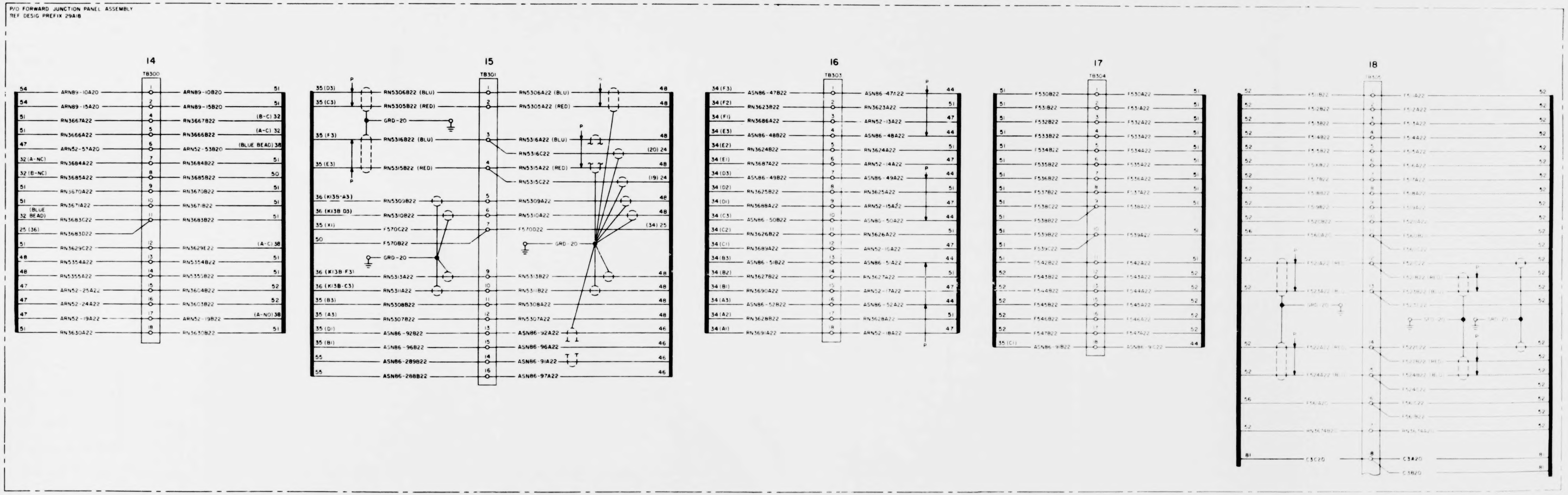
FO-37. Forward junction panel assembly (29A18) wiring diagram (sheet 1 of 7)

THIS SHEET CONTAINS STATIONS 9 THRU 13

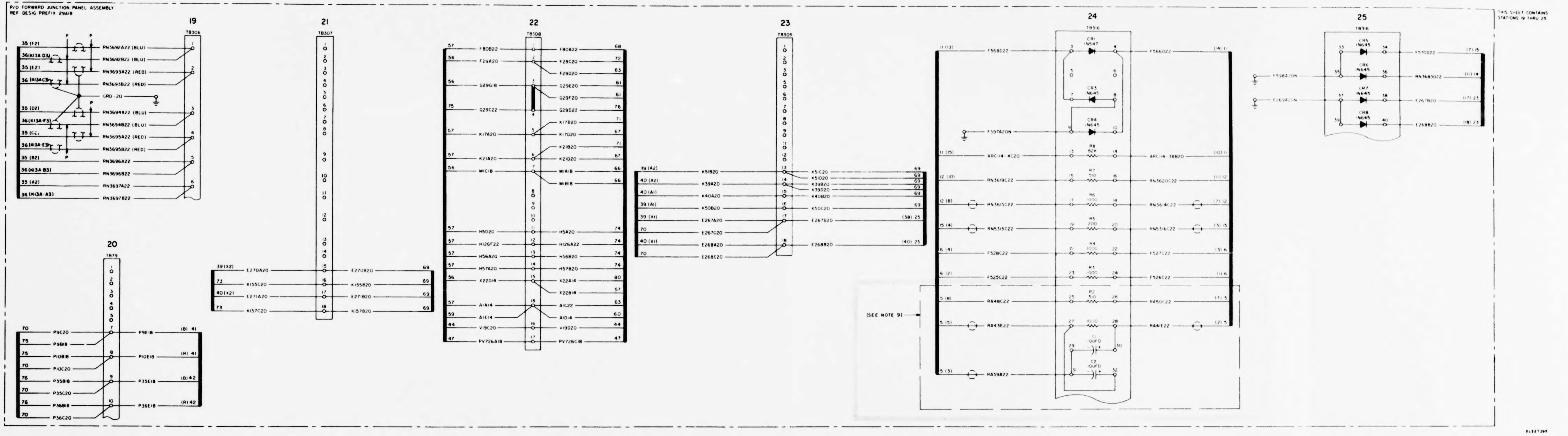

P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
9
TB33
10
TB30
(NOTE 5)
P/O BRAID NO. 1
11
TB53
GRD-20
12
TB54
P/O BRAID NO. 2
(NOTE 5)
13
TB102

FO-37 Forward junction panel assembly (29A18) wiring diagram (sheet 2 of 7)

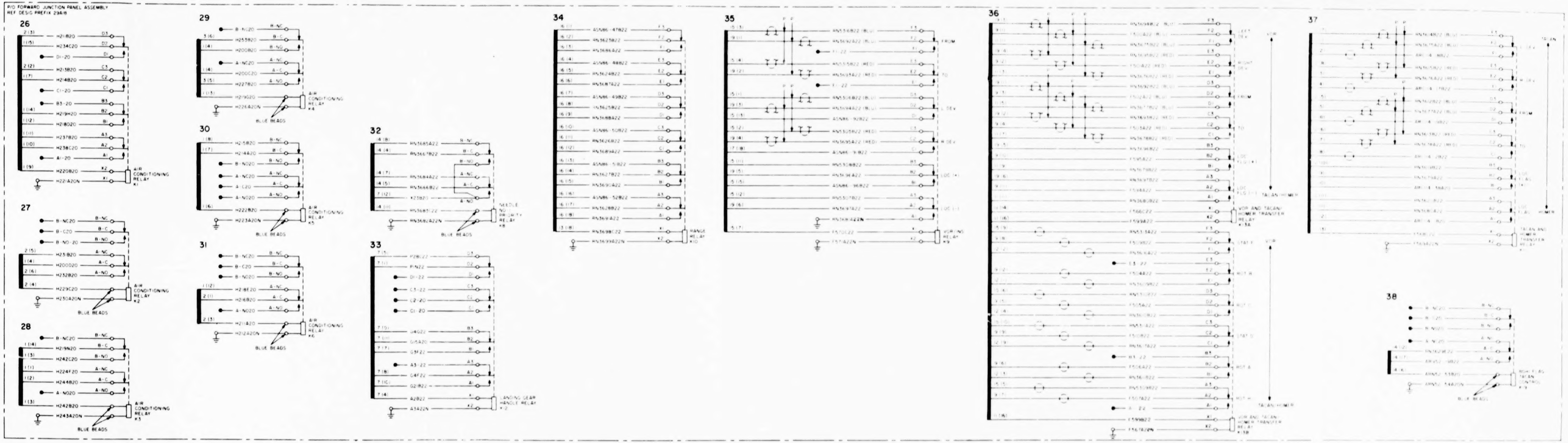
THIS SHEET CONTAINS
STATIONS 14 THRU 18


P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
14
TB300
15
TB301
16
TB303
17
TB304
18
ARN89-10A20
ARN89-10B20
ARN89-15A20
ARN89-15B20
RN3667A22
RN3667B22
RN3666A22
RN3666B22
(B-C) 32
(A-C) 32
(BLUE BEAD) 38
32 (A-NC)
32 (B-NC)
(BLUE BEAD)
25 (36)
(A-NO) 38
RN5306B22 (BLU)
RN5306A22 (BLU)
RN5305B22 (RED)
RN5305A22 (RED)
GRD-20
RN5316B22 (BLU)
RN5316A22 (BLU)
RN5315B22 (RED)
RN5315A22 (RED)
(20) 24
(19) 24
(34) 25
F570C22
F570B22
F570D22
ASN86-92B22
ASN86-92A22
ASN86-96B22
ASN86-96A22
ASN86-289B22
ASN86-91A22
ASN86-288B22
ASN86-97A22
ASN86-47B22
ASN86-47A22
RN3623B22
RN3623A22
P
F530B22
F530A22
F531B22
F531A22
C3C20
C3A20
C3B20

FO-37 Forward junction panel assembly (29A18) wiring diagram (sheet 3 of 7)


P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
THIS SHEET CONTAINS STATIONS 19 THRU 25
19
TB306
35 (F2)
36(K13A D3)
35 (E2)
36 (K13AC3)
35 (D2)
36(K13A-F3)
35 (C2)
36(K13A-E3)
35 (B2)
36(K13A B3)
35 (A2)
36 (K13A-A3)
P
RN3692A22 (BLU)
RN3692B22 (BLU)
RN3693A22 (RED)
RN3693B22 (RED)
GRD-20
RN3694A22 (BLU)
RN3694B22 (BLU)
RN3695A22 (RED)
RN3695B22 (RED)
RN3696A22
RN3696B22
RN3697A22
RN3697B22
20
TB79
70 P9C20
75 P9B18
75 P10B18
70 P10C20
76 P35B18
70 P35C20
76 P36B18
70 P36C20
P9E18 (B) 41
P10E18 (R) 41
P35E18 (B) 42
P36E18 (R) 42
21
TB307
39 (X2) E270A20
73 K155C20
40 (X2) E271A20
73 K157C20
E270B20 69
K155B20 69
E271B20 69
K157B20 69
22
TB308
57 F80B22
56 F29A20
56 G29G18
75 G29C22
57 K17A20
57 K21A20
56 M1C18
57 H5D20
57 H126F22
57 H56A20
57 H57A20
56 X22D14
57 A1A14
59 A1E14
44 V19C20
47 PV726A18
F80A22 68
F29C20 72
F29D20 63
G29E20 61
G29F20 61
G29D22 76
K17B20 71
K17D20 67
K21B20 71
K21D20 67
M1A18 66
M1B18 66
H5A20 74
H126A22 74
H56B20 74
H57B20 74
X22A14 80
X22B14 57
A1C22 63
A1D14 60
V19D20 44
PV726C18 47
23
TB309
39 (A2) K51B20
40 (A2) K39A20
40 (A1) K40A20
39 (A1) K50B20
39 (X1) E267A20
70 E267C20
40 (X1) E268A20
70 E268C20
K51C20 69
K51D20 69
K39B20 69
K39D20 69
K40B20 69
K50C20 69
E267B20 (38) 25
E268B20 (40) 25
24
TB316
CR1 1N547
CR3 1N645
CR4 1N645
11 (13) F568D22
F566D22 (14) 11
F597A20N
R8 82K
11 (15) ARC114-4C20
ARC114-38B20 (10) 11
R7 510
12 (10) RN3619C22
RN3620C22 (11) 12
R6 1000
12 (8) RN3615C22
RN3614C22 (7) 12
R5 200
15 (4) RN5315C22
RN5316C22 (3) 15
R4 1000
6 (4) F528C22
F527C22 (3) 6
R3 1000
6 (2) F525C22
F526C22 (1) 6
R2 510
5 (8) RA48C22
RA50C22 (7) 5
(SEE NOTE 9)
1000
5 (5) RA43E22
RA41E22 (2) 5
C1 10UFD
C2 10UFD
5 (3) RA59A22
25
TB316
CR5 1N645
CR6 1N645
CR7 1N645
CR8 1N645
F598A20N
E269A20N
F570D22 (7) 15
RN3683D22 (11) 14
E267B20 (17) 23
E268B20 (18) 23

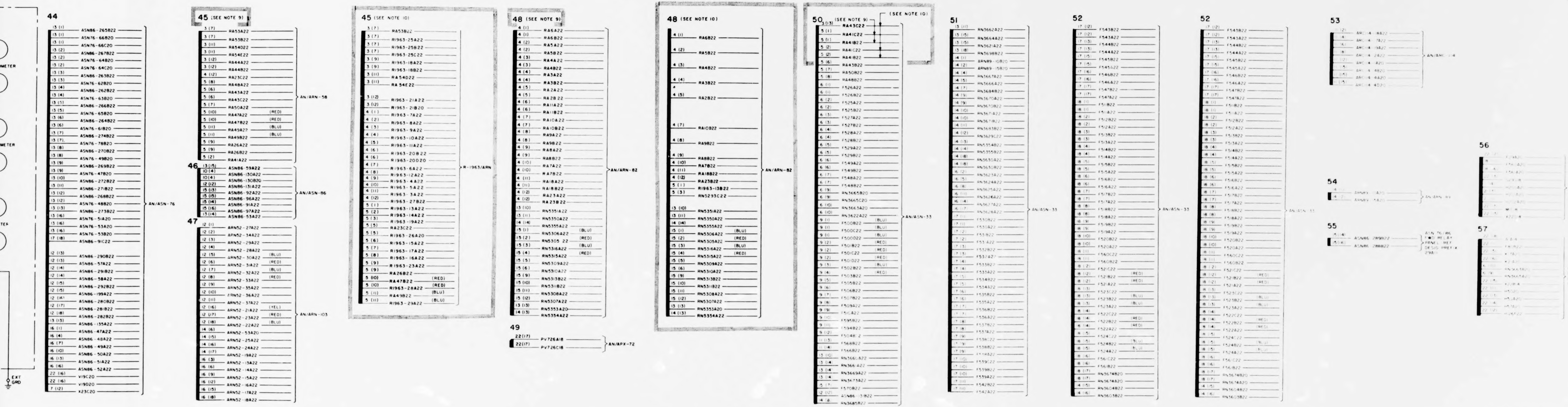
FO-37 Forward junction panel assembly (29A18) wiring diagram (sheet 4 of 7)


P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
26
AIR CONDITIONING RELAY K1
27
AIR CONDITIONING RELAY K2
BLUE BEADS
28
AIR CONDITIONING RELAY K3
BLUE BEADS
29
AIR CONDITIONING RELAY K4
BLUE BEADS
30
AIR CONDITIONING RELAY K5
BLUE BEADS
31
AIR CONDITIONING RELAY K6
BLUE BEADS
32
NEEDLE NO. 1 PRIORITY RELAY K8
BLUE BEADS
33
LANDING GEAR HANDLE RELAY K12
34
RANGE RELAY K10
35
FROM
TO
L DEV
R DEV
LOC (+)
LOC (-)
VOR/ILS RELAY K9
36
LEFT DEV
RIGHT DEV
FROM
TO
LOC FLG (+)
LOC FLG (-)
VOR
TACAN/HOMER
VOR AND TACAN/HOMER TRANSFER RELAY K13A
STAT 1
RLT B
RLT C
STAT D
RLT A
RLT H
VOR
TACAN/HOMER
VOR AND TACAN/HOMER TRANSFER RELAY K13B
37
L DEV
R DEV
FROM
TO
LOC FLAG (+)
LOC FLAG (-)
TACAN
HOMER
TACAN AND HOMER TRANSFER RELAY
38
NON FLAG TACAN CONTROL K7
BLUE BEADS

FO-37. Forward junction panel assemb
(29A18) wiring diagram (sheet 5 of 7)

P/O FORWARD JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A18
41
20 (8) P10E18 R
LEFT AMMETER
20 (7) P9E18 B
42
20 (10) P36E18 R
RIGHT AMMETER
20 (9) P35E18 B
43
7 (2) P1P22 R
VOLTMETER
P32A22N B
RN3654D14N
EXT GRD
39
23 (13) K51B20 A3 A2
23 (16) K50B20 A1
23 (17) E267A20 X1
21 (15) E270A20 X2
NO 1 TORQUE RELAY K17
40
23 (14) K39A20 A3 A2
23 (15) K40A20 A1
23 (18) E268A20 X1
21 (17) E271A20 X2
NO 2 TORQUE RELAY K18
44
13 (1) ASN86-265B22
13 (1) ASN76-66B20
13 (1) ASN76-66C20
13 (2) ASN86-267B22
13 (2) ASN76-64B20
13 (2) ASN76-64C20
13 (3) ASN86-263B22
13 (3) ASN76-62B20
13 (4) ASN86-262B22
13 (4) ASN76-63B20
13 (5) ASN86-266B22
13 (5) ASN76-65B20
13 (6) ASN86-264B22
13 (6) ASN76-61B20
13 (7) ASN86-274B22
13 (7) ASN76-78B20
13 (8) ASN86-270B22
13 (8) ASN76-49B20
13 (9) ASN86-269B22
13 (9) ASN76-47B20
13 (10) ASN86-272B22
13 (11) ASN86-271B22
13 (12) ASN86-268B22
13 (12) ASN76-48B20
13 (13) ASN86-273B22
13 (16) ASN76-51A20
13 (16) ASN76-53A20
13 (16) ASN76-53B20
17 (18) ASN86-91C22
12 (13) ASN86-290B22
12 (13) ASN86-57A22
12 (14) ASN86-291B22
12 (14) ASN86-58A22
12 (15) ASN86-292B22
12 (15) ASN86-199A22
12 (16) ASN86-280B22
12 (17) ASN86-281B22
12 (18) ASN86-282B22
13 (13) ASN86-135A22
16 (1) ASN86-47A22
16 (4) ASN86-48A22
16 (7) ASN86-49A22
16 (10) ASN86-50A22
16 (13) ASN86-51A22
16 (16) ASN86-52A22
22 (16) V19C20
22 (16) V19D20
7 (12) X23C20
AN/ASN-76
45 (SEE NOTE 9)
3 (7) RA53A22
3 (7) RA53B22
3 (11) RA54D22
3 (11) RA54E22
3 (12) RA44A22
3 (12) RA44B22
4 (12) RA23C22
5 (8) RA48A22
5 (6) RA43A22
5 (6) RA43C22
5 (7) RA50A22
5 (10) RA47A22 (RED)
5 (10) RA47B22 (RED)
5 (11) RA49A22 (BLU)
5 (11) RA49B22 (BLU)
5 (9) RA26A22
5 (9) RA26B22
5 (2) RA41A22
AN/ARN-58
46
13 (15) ASN86-59A22
10 (4) ASN86-130A22
10 (4) ASN86-130B20
12 (12) ASN86-131A22
15 (13) ASN86-92A22
15 (15) ASN86-96A22
15 (14) ASN86-91A22
15 (16) ASN86-97A22
13 (14) ASN86-53A22
AN/ASN-86
47
12 (1) ARN52-27A22
12 (2) ARN52-34A22
12 (3) ARN52-29A22
12 (4) ARN52-28A22
12 (5) ARN52-30A22 (BLU)
12 (6) ARN52-31A22 (RED)
12 (7) ARN52-32A22 (BLU)
12 (8) ARN52-33A22 (RED)
12 (9) ARN52-35A22
12 (10) ARN52-36A22
12 (11) ARN52-37A22
12 (16) ARN52-21A22 (BLU)
12 (17) ARN52-23A22 (RED)
12 (18) ARN52-22A22 (BLU)
14 (6) ARN52-53A20
14 (15) ARN52-25A22
14 (16) ARN52-24A22
14 (17) ARN52-19A22
16 (3) ARN52-13A22
16 (6) ARN52-14A22
16 (9) ARN52-15A22
16 (12) ARN52-16A22
16 (15) ARN52-17A22
16 (18) ARN52-18A22
AN/ARN-103
45 (SEE NOTE 10)
3 (7) RA53B22
3 (7) R1963-25A22
3 (7) R1963-25B22
3 (7) R1963-25C22
3 (9) R1963-18A22
3 (9) R1963-18B22
3 (11) RA54D22
3 (11) RA54E22
3 (12) R1963-21A22
3 (12) R1963-21B20
4 (1) R1963-7A22
4 (2) R1963-8A22
4 (3) R1963-9A22
4 (4) R1963-10A22
4 (5) R1963-11A22
4 (6) R1963-20B22
4 (6) R1963-20D20
4 (7) R1963-6A22
4 (8) R1963-12A22
4 (9) R1963-4A22
4 (10) R1963-5A22
4 (11) R1963-3A22
4 (12) R1963-27B22
5 (1) R1963-13A22
5 (2) R1963-14A22
5 (3) R1963-19A22
5 (5) RA23C22
5 (5) R1963-26A20
5 (6) R1963-15A22
5 (7) R1963-17A22
5 (8) R1963-16A22
5 (9) R1963-23A22
5 (9) RA26B22
5 (10) RA47B22 (RED)
5 (10) R1963-28A22 (RED)
5 (11) RA49B22 (BLU)
5 (11) R1963-29A22 (BLU)
R-1963/ARN
48 (SEE NOTE 9)
4 (1) RA6A22
4 (1) RA6B22
4 (2) RA5A22
4 (2) RA5B22
4 (3) RA4A22
4 (3) RA4B22
4 (4) RA3A22
4 (4) RA3B22
4 (5) RA2A22
4 (5) RA2B22
4 (6) RA11A22
4 (6) RA11B22
4 (7) RA10A22
4 (7) RA10B22
4 (8) RA9A22
4 (8) RA9B22
4 (9) RA8A22
4 (9) RA8B22
4 (10) RA7A22
4 (10) RA7B22
4 (11) RA18A22
4 (11) RA18B22
4 (12) RA23A22
4 (12) RA23B22
13 (10) RN5351A22
13 (11) RN5350A22
14 (14) RN5355A22
15 (1) RN5306A22 (BLU)
15 (2) RN5305 22 (RED)
15 (3) RN5316A22 (BLU)
15 (4) RN5315A22 (RED)
15 (5) RN5309A22
15 (6) RN5310A22
15 (9) RN5313B22
15 (10) RN5311B22
15 (11) RN5308A22
15 (12) RN5307A22
13 (13) RN5353A20
14 (13) RN5354A22
AN/ARN-82
49
22 (17) PV726A18
22 (17) PV726C18
AN/APX-72
48 (SEE NOTE 10)
4 (1) RA6B22
4 (2) RA5B22
4 (3) RA4B22
4 (4) RA3B22
4 (5) RA2B22
4 (7) RA10B22
4 (8) RA9B22
4 (9) RA8B22
4 (10) RA7B22
4 (11) RA18B22
4 (12) RA23B22
5 (1) R1963-13B22
5 (3) RN5293C22
13 (10) RN5351A22
13 (11) RN5350A22
14 (14) RN5355A22
15 (1) RN5306A22 (BLU)
15 (2) RN5305A22 (RED)
15 (3) RN5316A22 (BLU)
15 (4) RN5315A22 (RED)
15 (5) RN5309A22
15 (6) RN5310A22
15 (9) RN5313B22
15 (10) RN5311B22
15 (11) RN5308A22
15 (12) RN5307A22
13 (13) RN5353A20
14 (13) RN5354A22
AN/ARN-82
50 (SEE NOTE 9) (SEE NOTE 10)
3 (13) RA43C22
5 (1) RA41C22
5 (1) RA41B22
5 (2) RA41C22
5 (2) RA41B22
5 (6) RA43B22
5 (7) RA50B22
5 (8) RA48B22
6 (1) F526A22
6 (1) F526B22
6 (2) F525A22
6 (2) F525B22
6 (3) F527A22
6 (3) F527B22
6 (4) F528A22
6 (4) F528B22
6 (5) F529A22
6 (5) F529B22
6 (6) F549A22
6 (6) F549B22
6 (7) F548A22
6 (7) F548B22
6 (9) RN3665B20
6 (9) RN3665C20
6 (10) RN3663A20
6 (10) RN3622A22
9 (1) F500B22 (BLU)
9 (1) F500C22 (BLU)
9 (1) F500D22 (BLU)
9 (2) F501B22 (RED)
9 (2) F501C22 (RED)
9 (2) F501D22 (RED)
9 (3) F502B22 (BLU)
9 (4) F503B22 (RED)
9 (5) F505B22
9 (6) F506B22
9 (7) F507B22
9 (8) F509A22
9 (9) F510A22
9 (10) F595B22
9 (11) F594B22
9 (12) F504B 2
F568B22
F566B22
RN3660A22
RN366 A22
RN3669A22
RN3673A22
F570B22
ASN86-131B22
RN3685B22
AN/ASN-33
51
13 (11) RN3662A22
13 (15) RN3664A22
13 (15) RN3621A22
13 (18) RN3698B22
14 (1) ARN89-108
14 (2) ARN89-158
14 (4) RN3667A22
14 (5) RN3666A22
14 (7) RN3684B22
14 (9) RN3670A22
14 (9) RN3670B22
14 (10) RN3671A22
14 (10) RN3671B22
14 (11) RN3683B22
14 (12) RN3629C22
14 (13) RN5354B22
14 (14) RN5355B22
14 (18) RN3630A22
14 (18) RN3630B22
F530B22
F531A22
F531B22
F532B22
F533B22
F533A22
F534B22
F534A22
F535B22
F535A22
F536B22
F536A22
F537B22
F537A22
F538B22
F539B22
F539A22
F542B22
F542A22
AN/ASN-33
52
17 (12) F543B22
17 (12) F543A22
17 (13) F544B22
17 (13) F544A22
17 (15) F545B22
17 (15) F545A22
17 (16) F546B22
17 (16) F546A22
17 (17) F547B22
17 (17) F547A22
18 (1) F511B22
18 (1) F511A22
18 (2) F512B22
18 (2) F512A22
18 (3) F513B22
18 (3) F513A22
18 (4) F514B22
18 (4) F514A22
18 (5) F515B22
18 (5) F515A22
18 (6) F516B22
18 (6) F516A22
18 (7) F517B22
18 (7) F517A22
18 (8) F518B22
18 (8) F518A22
18 (9) F519B22
18 (9) F519A22
18 (10) F520B22
18 (10) F520A22
F560C22
F560B22
F521C22
F521B22 (RED)
F521A22 (RED)
F523C22
F523B22 (BLU)
F523A22 (BLU)
F522C22
F522B22 (RED)
F522A22 (RED)
F524C22
F524B22
F524A22
F561C22
F561B22
RN3674B20
RN3674A20
RN3604B22
RN3603B22
AN/ASN-33
52
F543B22
F543A22
F544B22
F544A22
F545B22
F545A22
F546B22
F546A22
F547B22
F547A22
AN/ASN-33
53
ARC
54
ARN89
55
ASN86-289B22
ASN86-288B22

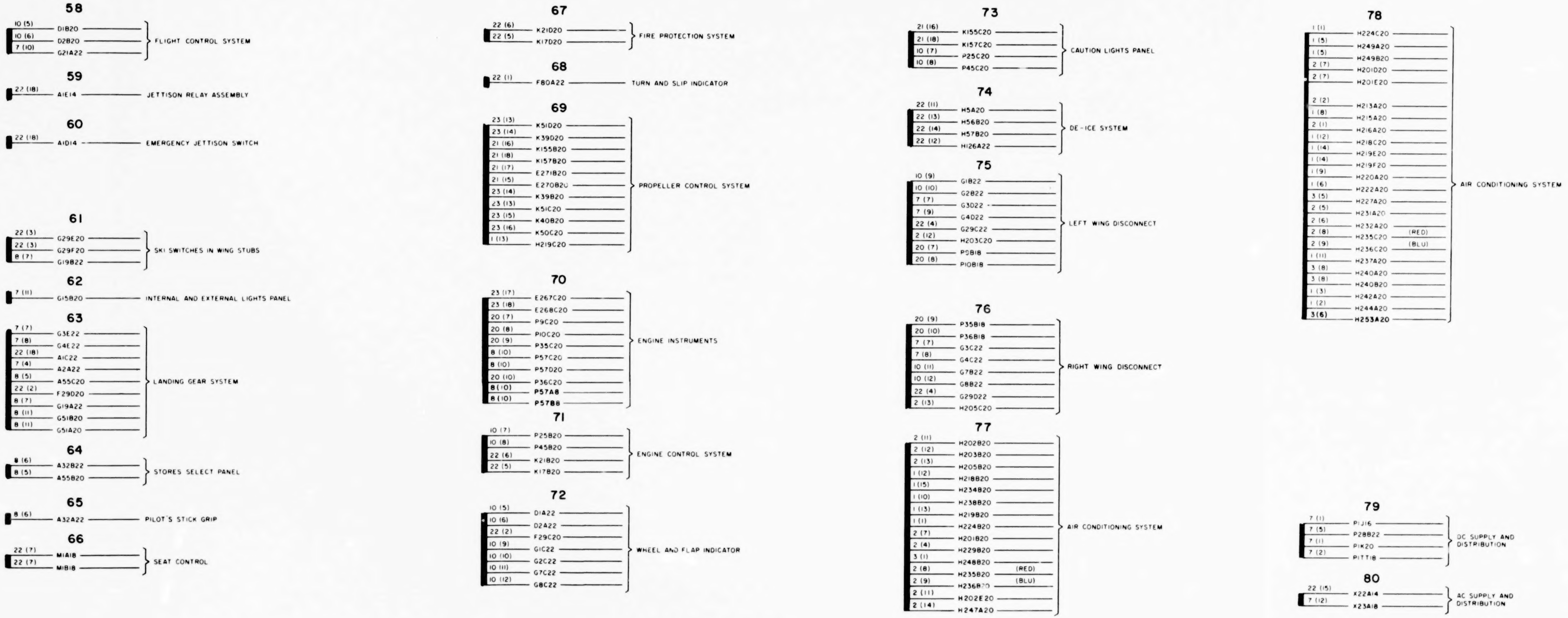
THIS SHEET CONTAINS STATIONS 39 THRU 57


44
AN/ASN-76
45 (SEE NOTE 9)
AN/ARN-58
46
AN/ASN-86
47
AN/ARN-103
45 (SEE NOTE 10)
R-1963/ARN
48 (SEE NOTE 9)
AN/ARN-82
49
AN/APX-72
48 (SEE NOTE 10)
AN/ARN-82
50
(SEE NOTE 9)
(SEE NOTE 10)
AN/ASN-33
51
AN/ASN-33
52
AN/ASN-33
52
AN/ASN-33
53
AN/ARC-114
54
AN/ARN-89
55
AN 76/86 AND RELAY PANEL REF DESIG PREFIX 29A11
56
REMOTE CIRCUIT BREAKER AND AC DC JUNCTION PANEL REF DESIG PREFIX 29A19
57
COCKPIT CIRCUIT BREAKER PANEL REF DESIG PREFIX 29A20
EXT GRD
(RED)
(BLU)
(YEL)

EL2Z7261

FO-37. Forward junction panel assembly (29A18) wiring diagram (sheet 6 of 7)

THIS SHEET CONTAINS
STATIONS 58 THRU 81



58

10 (5)	D1B20	FLIGHT CONTROL SYSTEM
10 (6)	D2B20	
7 (10)	G21A22	

59

22 (18)	A1E14	JETTISON RELAY ASSEMBLY

60

22 (18)	A1D14	EMERGENCY JETTISON SWITCH

61

22 (3)	G29E20	SKI SWITCHES IN WING STUBS
22 (3)	G29F20	
8 (7)	G19B22	

62

7 (11)	G15B20	INTERNAL AND EXTERNAL LIGHTS PANEL

63

7 (7)	G3E22	LANDING GEAR SYSTEM
7 (8)	G4E22	
22 (18)	A1C22	
7 (4)	A2A22	
8 (5)	A55C20	
22 (2)	F29D20	
8 (7)	G19A22	
8 (11)	G51B20	
8 (11)	G51A20	

64

8 (6)	A32B22	STORES SELECT PANEL
8 (5)	A55B20	

65

8 (6)	A32A22	PILOT'S STICK GRIP

66

22 (7)	M1A18	SEAT CONTROL
22 (7)	M1B18	

67

22 (6)	K21D20	FIRE PROTECTION SYSTEM
22 (5)	K17D20	

68

22 (1)	F80A22	TURN AND SLIP INDICATOR

69

23 (13)	K51D20	PROPELLER CONTROL SYSTEM
23 (14)	K39D20	
21 (16)	K155B20	
21 (18)	K157B20	
21 (17)	E271B20	
21 (15)	E270B20	
23 (14)	K39B20	
23 (13)	K51C20	
23 (15)	K40B20	
23 (16)	K50C20	
1 (13)	H219C20	

70

23 (17)	E267C20	ENGINE INSTRUMENTS
23 (18)	E268C20	
20 (7)	P9C20	
20 (8)	P10C20	
20 (9)	P35C20	
8 (10)	P57C20	
8 (10)	P57D20	
20 (10)	P36C20	
8 (10)	P57A8	
8 (10)	P57B8	

71

10 (7)	P25B20	ENGINE CONTROL SYSTEM
10 (8)	P45B20	
22 (6)	K21B20	
22 (5)	K17B20	

72

10 (5)	D1A22	WHEEL AND FLAP INDICATOR
10 (6)	D2A22	
22 (2)	F29C20	
10 (9)	G1C22	
10 (10)	G2C22	
10 (11)	G7C22	
10 (12)	G8C22	

73

21 (16)	K155C20	CAUTION LIGHTS PANEL
21 (18)	K157C20	
10 (7)	P25C20	
10 (8)	P45C20	

74

22 (11)	H5A20	DE-ICE SYSTEM
22 (13)	H56B20	
22 (14)	H57B20	
22 (12)	H126A22	

75

10 (9)	G1B22	LEFT WING DISCONNECT
10 (10)	G2B22	
7 (7)	G3D22	
7 (9)	G4D22	
22 (4)	G29C22	
2 (12)	H203C20	
20 (7)	P9B18	
20 (8)	P10B18	

76

20 (9)	P35B18	RIGHT WING DISCONNECT
20 (10)	P36B18	
7 (7)	G3C22	
7 (8)	G4C22	
10 (11)	G7B22	
10 (12)	G8B22	
22 (4)	G29D22	
2 (13)	H205C20	

77

2 (11)	H202B20		AIR CONDITIONING SYSTEM
2 (12)	H203B20		
2 (13)	H205B20		
1 (12)	H218B20		
1 (15)	H234B20		
1 (10)	H238B20		
1 (13)	H219B20		
1 (1)	H224B20		
2 (7)	H201B20		
2 (4)	H229B20		
3 (1)	H248B20		
2 (8)	H235B20	(RED)	
2 (9)	H236B20	(BLU)	
2 (11)	H202E20		
2 (14)	H247A20		

78

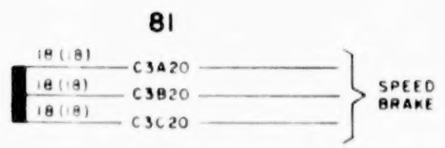
1 (1)	H224C20		AIR CONDITIONING SYSTEM
1 (5)	H249A20		
1 (5)	H249B20		
2 (7)	H201D20		
2 (7)	H201E20		
2 (2)	H213A20		
1 (8)	H215A20		
2 (1)	H216A20		
1 (12)	H218C20		
1 (14)	H219E20		
1 (14)	H219F20		
1 (9)	H220A20		
1 (6)	H222A20		
3 (5)	H227A20		
2 (5)	H231A20		
2 (6)	H232A20		
2 (8)	H235C20	(RED)	
2 (9)	H236C20	(BLU)	
1 (11)	H237A20		
3 (8)	H240A20		
3 (8)	H240B20		
1 (3)	H242A20		
1 (2)	H244A20		
3(6)	H253A20		

79

7 (1)	P1J16	DC SUPPLY AND DISTRIBUTION
7 (5)	P28B22	
7 (1)	P1K20	
7 (2)	P1T18	

80

22 (15)	X22A14	AC SUPPLY AND DISTRIBUTION
7 (12)	X23A18	



81

18 (18)	C3A20	SPEED BRAKE
18 (18)	C3B20	
18 (18)	C3C20	

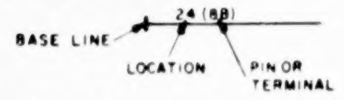
NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:

KY28 16 C 22 N

FACILITY OR FUNCTION — CIRCUIT — WIRE SEGMENT — WIRE SIZE — GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:

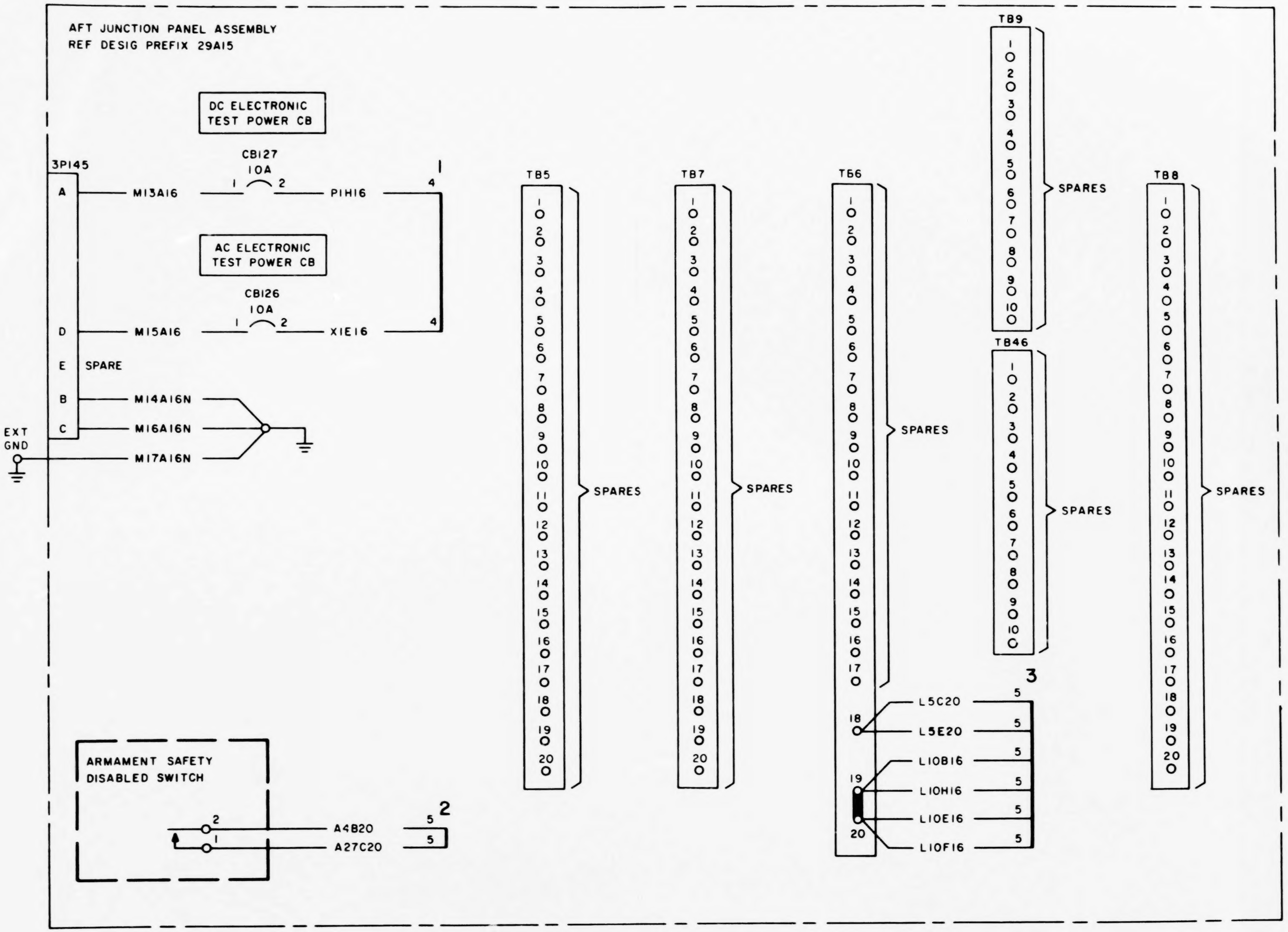


3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. BRAID NUMBERS ARE ARBITRARILY ASSIGNED. THEY SHOW A COMPLETE BRAID WHEN A BRAID APPEARS AT TWO OR MORE LOCATIONS ON A DRAWING.
6. INDICATES MECHANICAL CONNECTION TO SHIELD.
7. CONNECTED TO TERMINALS WHEN ROUND DIALS ARE INSTALLED.
8. INSULATED AND STOWED WHEN ROUND DIALS ARE INSTALLED.
9. APPLIES BEFORE INCORPORATION OF MWO55-1510-213-50-1.
10. APPLIES AFTER INCORPORATION OF MWO55-1510-213-50-1.
11. APPLIES BEFORE INCORPORATION OF MWO55-1510-213-30-3.
12. APPLIES AFTER INCORPORATION OF MWO55-1510-213-30-3

EL221262

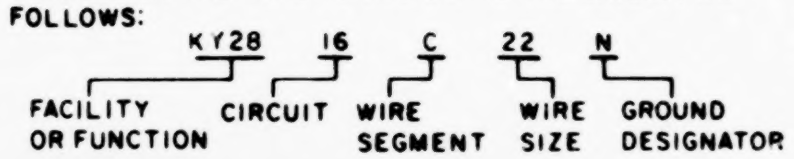
FO-37. Forward junction panel assembly (29A18) wiring diagram (sheet 7 of 7).

THIS SHEET CONTAINS
STATIONS 1 THRU 5.

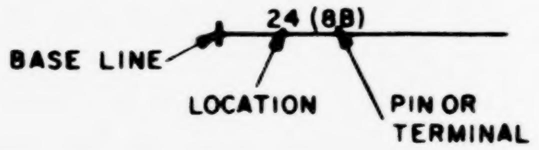

AFT JUNCTION PANEL ASSEMBLY
REF DESIG PREFIX 29A15
DC ELECTRONIC TEST POWER CB
AC ELECTRONIC TEST POWER CB
3P145
A
D
E
SPARE
B
C
EXT GND
M13A16
CB127
10A
1
2
P1H16
4
M15A16
CB126
10A
X1E16
M14A16N
M16A16N
M17A16N
TB5
TB7
TB6
TB9
TB46
TB8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
SPARES
18
19
20
L5C20
L5E20
L10B16
L10H16
L10E16
L10F16
5
3
ARMAMENT SAFETY DISABLED SWITCH
A4B20
A27C20
2

NOTES:

1. WIRE NUMBERS SHOWN ON DIAGRAM ARE THE NUMBERS STAMPED ON THE WIRE TO DESIGNATE THE CIRCUIT AS FOLLOWS:


KY28
16
C
22
N
FACILITY OR FUNCTION
CIRCUIT
WIRE SEGMENT
WIRE SIZE
GROUND DESIGNATOR

2. THE NUMBER IMMEDIATELY ADJACENT TO THE BASE LINE INDICATES THE RELATIVE LOCATION OF THE WIRE CONNECTION. THE NUMBER IN PARENTHESIS INDICATES THE PARTICULAR PIN OR TERMINAL AT THAT LOCATION THE WIRE IS CONNECTED TO. AN EXAMPLE OF THE WIRE CONNECTION NUMBER IS AS FOLLOWS:


24 (8B)
BASE LINE
LOCATION
PIN OR TERMINAL

3. WIRES WITHOUT WIRE NUMBERS ARE 20 GAUGE JUMPER WIRES.
4. ▭ INDICATES EQUIPMENT MARKINGS.
5. BRAID NUMBERS ARE ARBITRARILY ASSIGNED. THEY SHOW A COMPLETE BRAID WHEN A BRAID APPEARS AT TWO OR MORE LOCATIONS ON A DRAWING.
6. — — — — FOR REFERENCE ONLY.
7. —( )— INDICATES SHIELD CONNECTION.

4

1 (CB127-2)	P1H16	REMOTE CIRCUIT BREAKER AND AC-DC JUNCTION PANEL REF DESIG PREFIX 29A19
1 (CB126-2)	X1E16A	

5

3 (18)	L5E20	TAIL LIGHT DISCONNECT
3 (19)	L10B16	LEFT OVERHEAD, COCKPIT
3 (19)	L10H16	TOP ANTI-COLLISION LIGHT
3 (20)	L10E16	BOTTOM ANTI-COLLISION LIGHT
3 (20)	L10F16	
3 (18)	L5C20	INTERIOR AND EXTERIOR LIGHTS JUNCTION PANEL
2 (1)	A27C20	
2 (2)	A4B20	

EL2ZT263

FO-38. Aft junction panel assembly (29A15) wiring diagram.

PIN : 033856-000